APR 2023 / VOL 113 NO 4
US $7 CAN $9

LANDSCAPE ARCHITECTURE MAGAZINE

THE MAGAZINE OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

MAKE IT WORK

Sarah Cowles and Ruderal in the Caucasus

DESIGNJONES

The Rice Butterfly Memorial plants hope for a better future

SILVER BOW CREEK

What's next for the mining town of Butte, Montana

MARJORIE SEWELL CAUTLEY

A trailblazing life in design

VISIT…

LANZAROTE
Caliente.COM

The Right Container for Every Project
www.campaniainternational.com

CAMPANIA
INTERNATIONAL

215-541-4330 | projects@campaniainternational.com

POSSIBILITY STARTS HERE

This is the beginning of something more. It's a place where memories are made, communities are born and generations learn through the power of play. With play, anything is possible.

Burke.
PLAY THAT MOVES YOU.
bciburke.com

Site: Thompson County Park, West St. Paul, MN
Theme: Pollinator Education
Park Designer: Jason Aune of AFLA
© BCI Burke Company 2023. All Rights Reserved. 800-356-2070

LANDSCAPE ARCHITECTURE MAGAZINE

THE MAGAZINE OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

APRIL 2023

10 **INSIDE**
14 **LAND MATTERS**
156 **ADVERTISER INDEX**
157 **ADVERTISERS BY PRODUCT CATEGORY**

FOREGROUND

20 **NOW** *Timothy A. Schuler, Editor*

A pilot program for rural schoolyards launches in Oregon; green burials and urban park space go together; a new podcast views the Green New Deal from abroad; more money for coastal resilience is out there, and more.

40 **INFRASTRUCTURE**

If Buffalo Could Roam *by Timothy A. Schuler*
After an old bridge became unsafe, plans for a replacement took an unexpected turn when a proposal for a wildlife crossing began to gather support. Landscape architecture students jumped in to take the idea from concept to (maybe) reality.

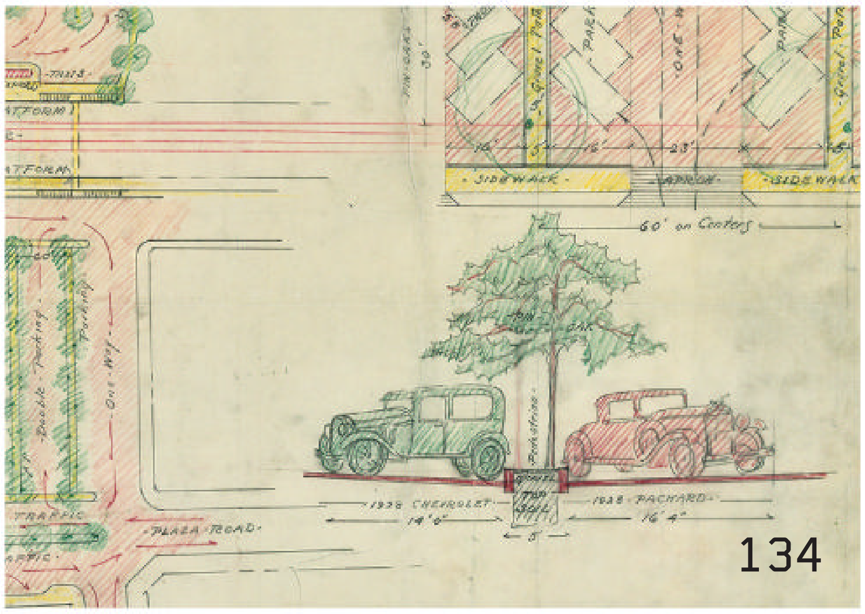
52 **PLANNING**

The Heart of the Hill *by Sarah Chase Shaw*
Once known as the "Richest Hill on Earth," Butte, Montana, has fought to move on from copper mining's aftermath in the form of a Superfund site and the notorious Berkeley Pit. After decades of federal negotiations and community activism, the city is set to step forward with a new vision led by Land Design, Inc.

66 **GOODS** *Kristen Mastroianni, Editor*

Public Relations
Durable furniture for convivial spaces.

TRUST FOR PUBLIC LAND, TOP; LAND DESIGN, INC., BOTTOM



GIORGI KOLBAIA, TOP; MARC TREIB, HONORARY ASLA, CENTER; MSCC COLUMBIA, BOTTOM

FEATURES

76 **The Butterfly Effect** *by Anjulie Rao*

For more than five years, only a small site of remembrance marked the place where 12-year-old Tamir Rice was shot by the police while playing with his sister. To create a space for healing, Tamir's mother, Samaria Rice, knew they would need more. Led by DesignJones LLC with DERU Landscape Architecture, the new Rice Butterfly Memorial is a testament to a community's commitment and a mother's determination to make a safer world for children from the ashes of grief.

94 **Range Rover** *by Jessica Bridger*

Tbilisi, Georgia, is an unexpected place for a well-established American designer and educator like Sarah Cowles, ASLA, to launch a new practice, but the vibrant city, wild Caucasus Mountains, and go-go business climate suited her. With Russia, China, and western Europe jockeying for ever-bigger infrastructure projects, Georgia, and increasingly, Ruderal, is right in the thick of a global crossroads's rebirth.

THE BACK

122 **Ten Topographic Acts** *by Marc Treib, Honorary ASLA*

An excerpt from *The Shape of the Land: Topography & Landscape Architecture* looks at land formation and deformation in 10 iconic projects.

134 **BOOKS** *Mimi Zeiger, Editor*

Thoroughly Modern Marjorie *by Elissa Rosenberg*

A review of *Marjorie Sewell Cautley: Landscape Architect for the Motor Age,* by Sarah Allaback.

168 **BACKSTORY**

A planting design installed at Madison Square Park with numbers at its core.

“As much play value as possible,
as much safety as necessary.”

This simple principle has guided the Richter Spielgeräte company for over 50 years. At Smale Riverfront Park in Cincinnati, Richter’s original play structures offer unusual challenge, compliment the landscape, and highlight the special character of the city.

Photos: Daniel Perales

To discover more of our original play offers,
visit us at www.apeoriginal.com

ape STUDIO™

Exclusive North American partner of

Richter Spielgeräte GmbH

landscapeforms®

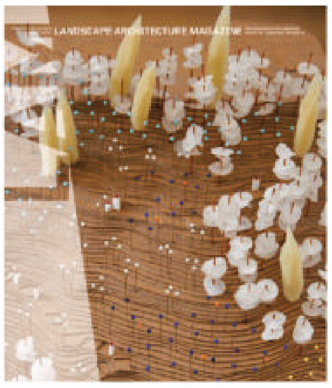
Designing with Intention.

We know that truly great design is so much more than just how things look. That's why everything we create is inspired through collaboration, with a commitment to sustainability, and rooted in insights into the ways in which people want to engage with the outdoors – and with one another.

Landscape Forms | A Modern Craft Manufacturer

LANDSCAPE ARCHITECTURE MAGAZINE

THE MAGAZINE OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS



ON THE COVER

A model of the Narikala Ridge project in Tbilisi, Georgia, by Ruderal, page 94.

EDITOR
Jennifer Reut / *jreut@asla.org*

DEPUTY EDITOR
Laurie A. Shuster / *lshuster@asla.org*

ART DIRECTOR
Christopher McGee / *cmcgee@asla.org*

SENIOR GRAPHIC DESIGNER
Kristen Mastroianni / *kmastroianni@asla.org*

COPY CHIEF
Lisa Schultz / *lschultz@asla.org*

PRODUCTION EDITOR
Leah Ghazarian / *lghazarian@asla.org*

CONTRIBUTING EDITORS
Brian Barth; Jared Brey; Jessica Bridger; Sahar Coston-Hardy, Affiliate ASLA; Lydia Lee; Jonathan Lerner; Jane Margolies; Zach Mortice; Maci Nelson, Associate ASLA; Timothy A. Schuler; James R. Urban, FASLA; Lisa Owens Viani; Mimi Zeiger

EDITORIAL ADVISORY COMMITTEE
David Toda, ASLA / Chair
Monique Bassey, ASLA / Vice President, Communications
Diana Boric, Associate ASLA
Meg Calkins, FASLA
Michelle Davis, ASLA
Sara Hadavi, ASLA
Susan Kenzle, ASLA
Jiali Liu, Associate ASLA
Petra Marar, ASLA
Graciela Martin, Associate ASLA
Daniel McElmurray, ASLA
Dennis R. Nola, FASLA
Andrew Sargeant, ASLA
Mackenzie Wendling, ASLA
Bo Zhang, ASLA

EDITORIAL
202-898-2444

PUBLISHER
Michael O'Brien, Honorary ASLA / *mobrien@asla.org*

DIRECTOR OF DEVELOPMENT AND STRATEGIC PARTNERSHIPS
Daniel Martin, Honorary ASLA / *dmartin@asla.org*

ADVERTISING SALES
202-216-2325

SALES MANAGER
Monica Barkley / *mbarkley@asla.org*

SALES MANAGER
Dan Heberlein / *dheberlein@asla.org*

SALES MANAGER
Kathleen Thomas / *kthomas@asla.org*

PRODUCTION
SENIOR PRODUCTION MANAGER
Laura Iverson / *liverson@asla.org*

COMMUNICATIONS AND MARKETING
DIRECTOR
Manny Gonzalez / *mgonzalez@asla.org*

SUBSCRIPTIONS
REPRESENTATIVE
subscriptions@asla.org

BACK ISSUES
888-999-ASLA (2752)

American Society of Landscape Architects

Landscape Architecture Magazine (ISSN 0023-8031) is published monthly by the American Society of Landscape Architects, 636 Eye Street NW, Washington, DC 20001-3736. Periodical postage paid at Washington, D.C., and additional mailing offices. Postmaster: Send address changes to *Landscape Architecture Magazine*, 636 Eye Street NW, Washington, DC 20001-3736. Publications Mail Agreement No. 41024518. Return undeliverable Canadian addresses to PO Box 503 RPO, West Beaver Creek, Richmond Hill, ON L4B 4R6. Copyright 2023 ASLA. Subscriptions: $59/year; international: $99/year; students: $50/year; digital: $44.25/year; single copies: $7.

Landscape Architecture Magazine seeks to support a healthy planet through environmentally conscious production and distribution of the magazine. This magazine is printed on certified paper using vegetable inks. The magazine is also available in digital format through *www.asla.org/lam/zinio* or by calling 1-888-999-ASLA.

MIX
Paper from responsible sources
FSC® C022017
FSC www.fsc.org

NEWS MEDIA ALLIANCE

Alliance for Audited Media
The New Audit Bureau of Circulations
MEMBER

ASLA BOARD OF TRUSTEES
PRESIDENT
Emily O'Mahoney, FASLA

PRESIDENT-ELECT
SuLin Kotowicz, FASLA

IMMEDIATE PAST PRESIDENT
Eugenia Martin, FASLA

VICE PRESIDENTS
Monique Bassey, ASLA
Chris Della Vedova, ASLA
Joy Kuebler, ASLA
Bradley McCauley, ASLA
Ebru Ozer, ASLA
Adrian Smith, FASLA

CHIEF EXECUTIVE OFFICER
Torey Carter-Conneen

SECRETARY
Curtis Millay, ASLA

TREASURER
Michael O'Brien, Honorary ASLA

TRUSTEES
Benjamin Baker, ASLA
María Bellalta, FASLA
Chad Bostick, ASLA
Elizabeth Boults, ASLA
Jonathan Bronk, ASLA
Kenneth Brooks, FASLA
Katie Clark, FASLA
Matthew Copp, ASLA
Jitka Dekojova, ASLA
Geoff Evans, ASLA
Alexander Fenech, ASLA
Michael Gaunt, ASLA
Jay Gibbons, ASLA
Joni Giese, ASLA
William Hall, ASLA
Jonathan Hayes, ASLA
Gail Henderson-King, ASLA
Todd Hill, ASLA
Allen Jones, ASLA
Carl Kelemen, FASLA
Omprakash Khurjekar, ASLA
Randy Knowles, ASLA
Chad Kucker, ASLA
Marieke Lacasse, ASLA
Chris Laster, ASLA
Justin Lemoine, ASLA
Baxter Miller, FASLA
Christopher Moon, ASLA
Jennifer Nitzky, FASLA
Amin Omidy, ASLA
Holley Bloss Owings, ASLA
Michele Palmer, ASLA
Vaughn Eric Perez, ASLA
Brian Roth, ASLA
Jan Saltiel-Rafel, ASLA
Barbara Santner, ASLA
Todd Schoolcraft, ASLA
Jean Senechal Biggs, ASLA
Dustin Smith, ASLA
Nathan Socha, ASLA
Brian Starkey, ASLA
Judith Stilgenbauer, ASLA
Robert Tilson, FASLA
Patricia Trauth, ASLA
William Bryce Ward, ASLA
Alan Watkins, ASLA
Andrew Wickham, ASLA
Gretchen Wilson, ASLA
Barbara Yaeger, ASLA

LAF REPRESENTATIVES
Kofi Boone, FASLA
Barbara Deutsch, FASLA

NATIONAL ASSOCIATE REPRESENTATIVE
Maria Maurer, ASLA

NATIONAL STUDENT REPRESENTATIVE
Madeline Kirschner, Associate ASLA

PARLIAMENTARIAN
Susan Jacobson, FASLA

GIORGI KOLBAIA

FLOAT™ BENCHES

Effortless style. Impressive versatility.

FLOAT BENCHES
Backed and backless 6ft benches. Frames of corrosion-resistant aluminum with a durable powdercoat finish. Slats of FSC® 100% Cumaru hardwood or domestically sourced FSC® Mix Credit Thermally Modified Red Oak. Integral end armrests; optional seat divider. Freestanding or surface mount.

FSC-C004453

FORMS+SURFACES

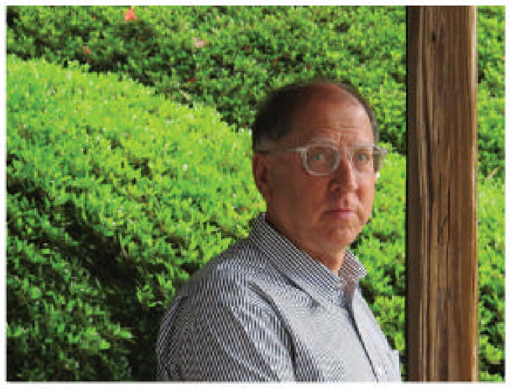
www.forms-surfaces.com

LAM /INSIDE

CONTRIBUTORS

ANJULIE RAO ("The Butterfly Effect," page 76) is a journalist and critic covering the built environment. You can follow her on Twitter *@AnjulieRao.*

"Molly Nagin and Samaria Rice spoke to me about how their energy has been directed toward stopping the construction of a new prison in Cleveland. Tamir's death coalesced young people around abolition, and Nagin really helped me understand how this proposed prison is connected to real estate speculation and the exploitation of poor neighborhoods, while also continuing the same carceral system that emboldens police to kill with impunity."



MARC TREIB, HONORARY ASLA, ("Ten Topographic Acts," page 122) is a professor of architecture emeritus at the University of California, Berkeley, and a historian and critic of designed landscapes, architecture, and art. His next books, *Poodling: On the Just Shaping of Shrubbery* and *Noguchi's Landscapes: The Garden as Sculpture,* will be published later this year.

"Working with several authors, many of them from foreign countries and without written texts, always presents a challenge involving lots of work transcribing, writing, and rewriting. The result is worth it, however."

GOT A STORY?

At *LAM,* we don't know what we don't know. If you have a story, project, obsession, or simply an area of interest you'd like to see covered, tell us! Send it to *lam@asla.org.*

For more information, visit *LAM* online at *landscapearchitecturemagazine.org/contribute-to-lam.*

Follow us on Twitter and Instagram *@landarchmag* and on Facebook at *www.facebook.com/landscapearchitecturemagazine.*

LAM is available in digital format through *landscapearchitecturemagazine.org/subscribe* or by calling 1-888-999-ASLA.

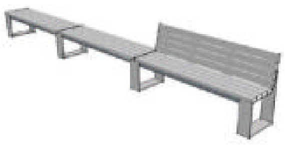
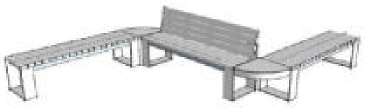
OWEN WORLEY, TOP; ALYSSA SCHWANN, BOTTOM

R520/R521 | DUMOR.COM | 800.598.4018

520 COLLECTION

Made to fit your space, the 520 collection curved benches can be customized to whichever length and radius your space requires. Additional pieces in the collection include standard benches, connected straight benches, angle connector benches, curved and straight wall mount benches, seat islands, and tables. A solid steel frame supports seating surfaces made of Thermally Modified Red Oak, Ipe, or Recycled Plastic(HDPE).

Du Mor®

DUMOR.COM | 800-598-4018

Equiparc

Create a

Relaxing

experience

The finest quality stonework for your landscape projects, hand crafted in the USA

Call 866 733 8225   Visit haddonstone.com

HADDONSTONE

LAM / LAND MATTERS

NOW HEAR THIS

One of the surprise pleasures of being called back to the office is that my commute includes a mile of walking before I reach the subway—during which, it turns out, I have all my best ideas. Though I think this explains a few choices I've made during the pandemic, when my longest walk was from my desk to the refrigerator, lately I've been looking forward to these walks with a breathless, *What will I think of next?* kind of feeling.

It was during one of these walks in February that I began to solve one of my most intractable problems. If you've encountered me in real life for any length of time, you've likely heard me nattering about how hard it is to find strong writers who understand landscape. I attribute this to a number of converging factors: the collapse of journalism as a profession in which people can make a living; the Internet media's love of "voice" over reporting and fact-checking; and the lazy arrogance of architecture-focused journalists, who believe writing about landscape is easy or just, you know, stuff about plants. To this and more, I ascribe the current dearth of smart writing about landscape.

As many do, I was listening to a podcast on my pedi-commute, when it hit me. (Side note: Check out *Design Unmuted's* excellent two-part interview with Diane Jones Allen, FASLA, whose work is featured in "The Butterfly Effect," page 76.) The writers are still out there—the need to communicate and to follow one's curiosity has not gone away—they are just on other platforms, and I needed to figure out how to break down the disciplinary walls and bring those journalists into the magazine. To that end, we are pleased to welcome Maci Nelson, Associate ASLA, the host and founder of *The Landscape Nerd* podcast onto our masthead as a contributing editor. Graciela Martin, Associate ASLA, a cohost (with Patricia Fabregas) of *The Green Side* podcast has recently joined our Editorial Advisory Committee.

At the beginning of the year, the American Historical Association, a professional organization I belong to (and once worked for), issued a new set of guidelines after many years of debate and discussion. *Guidelines for Broadening the Definition of Historical Scholarship* might not sound particularly world-shattering, but for a profession that has long hewed to standards of peer review for publication that require hundreds of hours of uncompensated labor, the thoughtful, considered embrace of new forms of knowledge production and assessment is a powerful move. They are opening the flap and inviting more people into the tent. As Jim Grossman, the association's president, noted in his monthly column, "Limiting the diversity of scholarly genres limits the diversity of potential scholars."

Professions are conservative by definition, and there is always a certain amount of boundary-policing that goes on, often for good reasons. But mature professions can change and still thrive. I am inspired by what professional historians have set out to do, and I take it as a prompt to figure out how to bring emerging multiplatform journalists into the magazine. In the meantime, spend some time with the new fleet of landscape architecture podcasts—and look out for their voices here soon.

JENNIFER REUT
EDITOR

Keep pool decks cool with our stylish Arc Cantilevers!

Check these great Shade Systems™ advantages:

- ✓ Turn-N-Slide™ fastening system for quick and easy canopy removal.
- ✓ CoolNet™ shade fabrics in your choice of 22 bright colors for up to 99% U.V. screening.
- ✓ Most comprehensive warranties in the industry.
- ✓ Rear support columns for poolside safety and easy seating arrangement.
- ✓ All stainless steel hardware and cables for maximum corrosion resistance and long life.

CELEBRATING 20 YEARS OF EXCELLENCE 2003-2023

Shade systems™

1.800.609.6066
shadesystemsinc.com/arc-cantilever

MAMA GREEN

HOSPITALITY | RESIDENTIAL | CONTRACT

www.mamagreen.com

☎ (+1) 312 953 3557 ✉ info@mamagreen.com

IRONSMITH

Leadership by design

A leader in tree grate design, IRONSMITH offers more than tree grates other products include: tree guards, trench grates, both straight and radius, bollards and the exclusive Paver-Grate® Suspended Paver System.

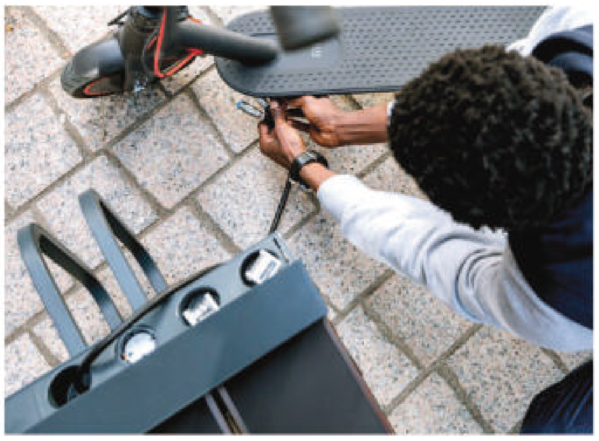
If custom is needed, IRONSMITH's extensive design capabilities will meet your special project needs.

www.ironsmith.biz

ARCHASOL

More than a place to sit

STEORA CYCLO



Not only a handy spot to charge your phone, tablet or laptop, access Wi-Fi or meet after dark in the safety of ambient light, the Steora Cyclo solar-powered bench keeps bike riders on the move with charging outlets for e-scooters and e-bikes, an air compressor to inflate flat tires and an NFC accessible compartment with tools for emergency tune-ups.

Optional backrest model incorporates additional PV cells for higher power.

archasol.com | 406.551.4098
Archasol by Archatrak

FOREGROUND

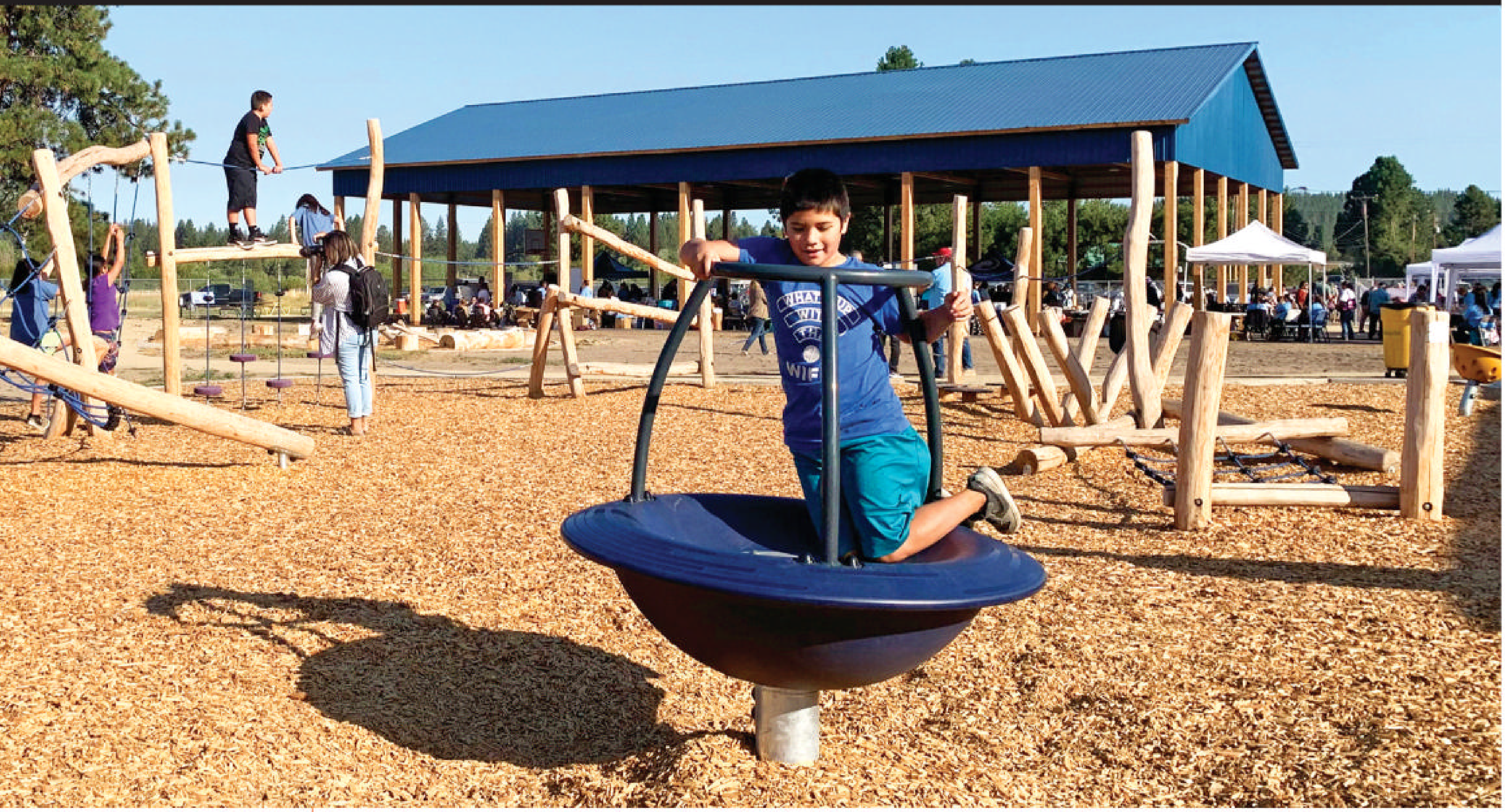
MISSISSIPPI RIVER

Students pencil out a proposed bison bridge between Illinois and Iowa, in **INFRASTRUCTURE,** page 40.

LANDSCAPE FORMS AND MICHAEL HERRICK PHOTOGRAPHY

EDITED BY TIMOTHY A. SCHULER

BETTER BY A YARD



TRUST FOR PUBLIC LAND

PRIORITIZING HEALTH AND SAFETY HELPS FOCUS RESOURCES AND DESIGN SKILLS ON RURAL SCHOOLYARDS.

BY TIMOTHY A. SCHULER

ABOVE
The redesigned play area at Chiloquin Elementary School serves both students and the greater community.

Until recently, when the children of Oregon's Chiloquin Elementary School went to recess, their play equipment consisted of a buckling blacktop, a single slide, a handful of swings, and some old tires. It was so dismal, recalls Art Ochoa, a retired principal who grew up in Chiloquin, that whenever students went on field trips to places like Klamath Falls, "the first thing the kids asked was, 'Do we get to stop at a park? Can we go play?'"

Now, through a collaboration between the Trust for Public Land (TPL), the Willamette Partnership, the Klamath Tribes, and ABLE, the schoolyard at Chiloquin Elementary has been reimagined as a nature-filled community park and play space and has spurred the creation of two new TPL initiatives: the Oregon Rural Community Schoolyards Program and, in partnership with the U.S. Interior Department's Bureau of Indian Education, the Tribal Community Schoolyards Pilot Program. The programs build on TPL's mission to increase community access to nature and public open space and represent a much-needed investment in rural and tribal communities.

Chiloquin lies at the confluence of the Sprague and Williamson Rivers, roughly 30 miles south of Crater Lake in Southern Oregon. The schoolyard project emerged from conversations between several tribal council members and Kristin Kovalik, the Oregon state program director for TPL, and from listening sessions facilitated by the

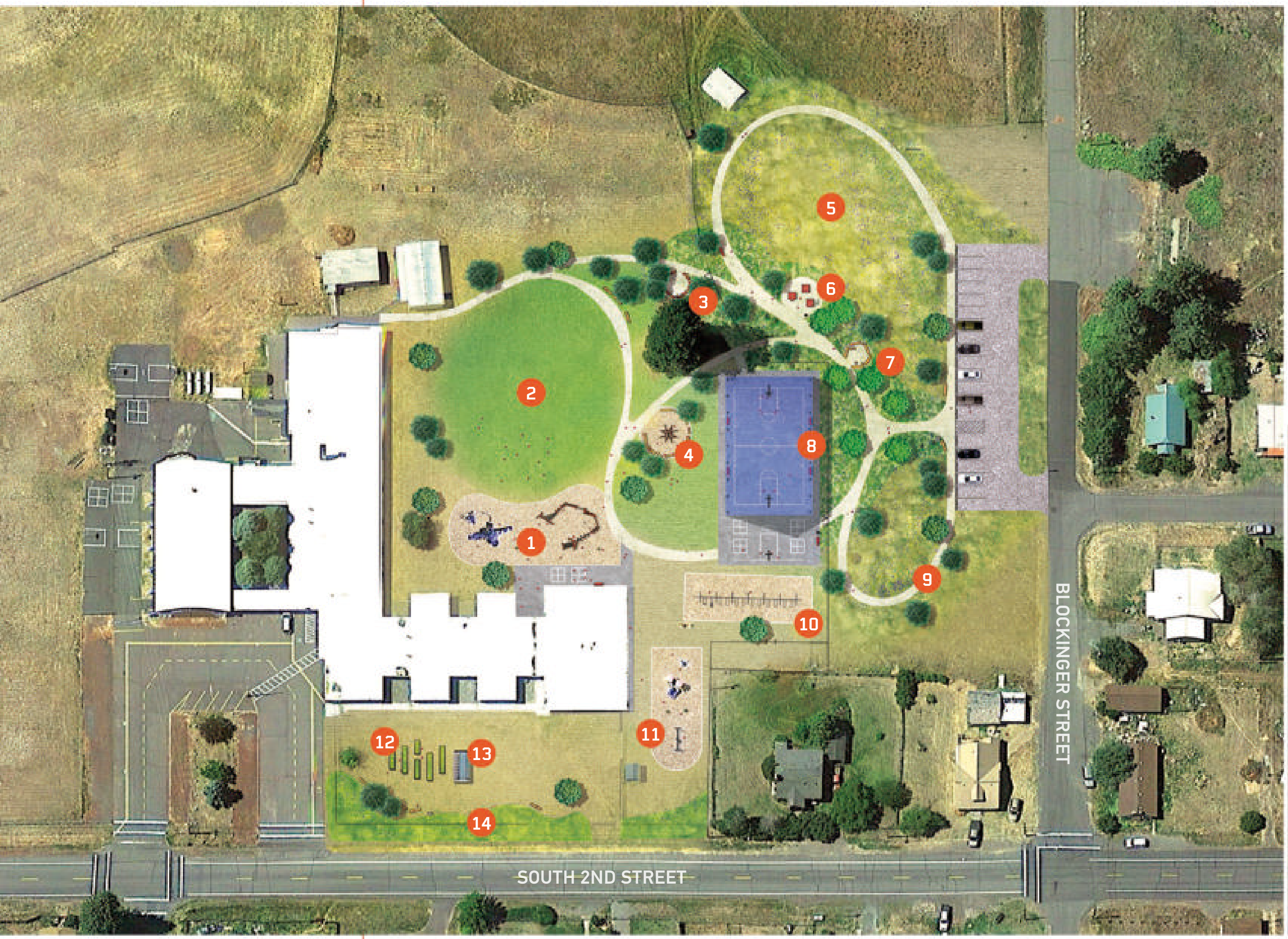
FORMA™
The contemporary new anywhere playsystem by Landscape Structures®
landscape structures®
#playconnectsus

We're bringing play to a new dimension. Introducing Forma, a sculptural take on traditional playstructures. Clean, modern and unlike anything else, Forma uses asymmetrical shapes, unique angles and a mix of materials to create play that looks and feels brand new. Clear sightlines make it easy to see all the activity. Above, below, inside and out, there's so much to explore with Forma!

To learn more visit us at playlsi.com/forma

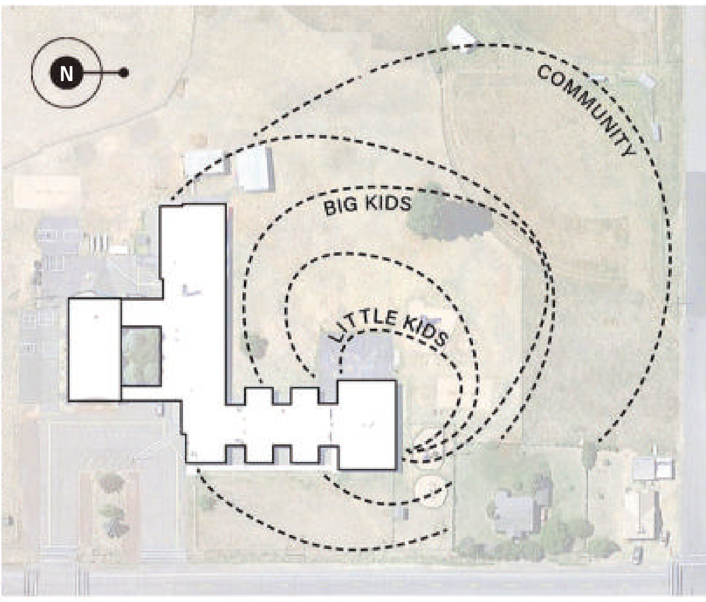
©2023 Landscape Structures Inc. All rights reserved.

CHILOQUIN GREEN SCHOOLYARD



LEGEND

1 PLAY STRUCTURES
2 OPEN FIELD
3 OUTDOOR CLASSROOM
4 NATURE PLAY
5 NATIVE MEADOW
6 PICNIC AREA
7 GATHERING AREA
8 COVERED BASKETBALL COURT
9 WALKING PATHS
10 SWINGS
11 LITTLE KID PLAY
12 RAISED BEDS
13 GREENHOUSE
14 POLLINATOR GARDEN



ABOVE LEFT
Active play areas hug the school building, with a community garden and walking paths wrapping the north and east sides.

ABOVE RIGHT
ABLE worked to accommodate kids of all ages and community access within a single cohesive design.

Willamette Partnership. “There were several reports that had already been written about the health and safety of Chiloquin, and the health and safety of this particular school,” Kovalik says. “We weren’t trying to convince people that this was an unhealthy or an unsafe place. The community already decided that for themselves.” Equally important was a resolution from the school board in support of the schoolyard being open to the community after school hours.

Funded through grants and private donations and completed in late 2022, the new schoolyard was designed, in collaboration with students, by ABLE, a Seattle-based landscape architecture firm founded in 2019 by Ashley Ludwig, ASLA. The design consolidates the play areas for different age groups, who were previously isolated on opposite sides of the school, and creates space for public amenities such as community garden beds and picnic areas around the periphery. A contemporary pole barn keeps both sun and snow off a new basketball court, and a community walking path winds through plantings of *dmolo* (Klamath plum), *doycq’as* (chokecherry), and *jaGlo* (sagebrush). Interpretive signage in both Klamath and English teaches kids and townspeople about the role of specific plants in Klamath culture.

The prominence of the Klamath language—which in addition to being read can be heard through operable speaker boxes—wouldn’t have been possible, Ludwig says, without Ochoa, the retired principal and a Klamath tribal member, who was hired early on through an internal TPL grant as the project’s community coordinator. Ochoa was instrumental in facilitating conversations between the design team and tribal elders, Ludwig says. “Hearing stories about the importance of these species really pushed us to think about how the planting can be this cultural piece that connects and educates kids,” she says.

The Chiloquin schoolyard project is now serving as the model for 12 other community schoolyards—three in rural Oregon (all designed by ABLE) and nine more in tribal communities across the country. Ochoa says it’s welcome news for communities that have seen decades of disinvestment. “Rural areas are often neglected,” he says. “Tribal, nontribal, urban, rural, it doesn’t matter—a safe and healthy environment should be an option for any kid.” ●

ABLE

Tournesol
Paso makes your space the place to be
TOURNESOL.COM/PASO

BELOW
Life After Life envisions modern memorial parks that are also spaces for green burials.

LIFE AFTER LIFE

SECOND LIFE

ONE LANDSCAPE DESIGNER'S CRUSADE TO COMBINE MORE PARK SPACE WITH ECOLOGICALLY SENSITIVE CEMETERIES.

BY LYDIA LEE

A year into the pandemic, the city of Los Angeles temporarily removed air-pollution restrictions on its crematoriums to let them process more bodies. The bleak news highlighted an uncomfortable truth about cremation, which is now more prevalent than burial: Environmental drawbacks for each cremation include the release of air pollutants and a quarter metric ton of carbon dioxide.

If a new model gains traction, instead of crematories, caskets, and cemeteries, cities would have parks devoted to natural habitat and green burials. It's the vision of Life After Life, a new Brooklyn, New York-based nonprofit led by the landscape designer Jacob Tannenbaum. The goal is to invest fees that would have gone to maintenance-intensive, carbon-emitting traditional cemeteries into remediating urban brownfields and turning them into "modern memorial parks."

"Phytoremediation is considerably cheaper than other methods, but seven to eight years is too long for commercial development," says Tannenbaum, who also has a master's degree in real estate development. "We can use those economics to our advantage and create new parks where they are needed."

Life After Life is working to acquire parcels near urban areas that are a minimum of five acres and convert them to native habitats, providing trail systems for public access and space for natural burials (unembalmed bodies or precomposted remains). The graves would be marked by customizable native plantings and GPS coordinates rather than gravestones. Currently, the organization is on track to raise $2 million for its first purchase in the Great Lakes region and plans to open this location in 2024.

ROSE OF THE YEAR
TRIALED. TESTED.
PROVEN.
PW
PROVEN WINNERS
COLOR CHOICE

RINGO ALL-STAR™

Rosa 'Cheweyesup' PPAF; CBRAF

Continuous Blooms | Disease Resistant

5'	SUMMER REBLOOM	USDA 4-8
	2-3' TALL + 3' WIDE	☼

Trialed and tested to ensure disease resistance, durability, and long bloom times, the Ringo® series of roses are ideal for landscape planting. The melon-orange blooms of Ringo All-Star™ rose transition to lavender-violet as they age, for a stunning, multi-colored effect.

FIND A **WHOLESALER**

For wholesale plant inquiries please contact us at
SpringMeadowNursery.com or 800-633-8859

Spring Meadow.

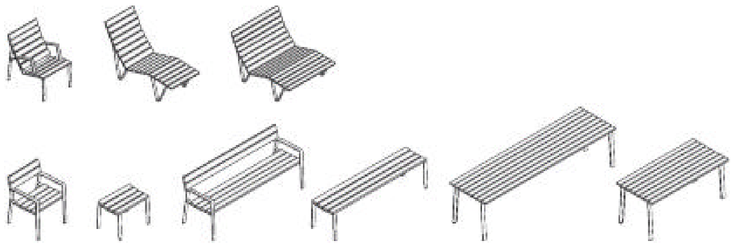
RIGHT
A speculative design with spaces for reflection or celebrations of life amid a dense forest canopy.

BELOW
Jacob Tannenbaum's model would allow for a phased approach to remediation and redevelopment.

Other indicators suggest that this is an idea whose time has come. Seattle-based Recompose, which offers human composting services, launched in 2020 and has already helped to legalize the process in six states. Natural burial grounds that preserve open space—also known as "conservation cemeteries"—are a well-established concept in the United Kingdom and have been gaining traction there. To wit: Better Place Forests, a San Francisco-based company that creates memorial forests, has raised more than $50 million and currently has nearly a dozen locations across the United States.

"If you care about the natural world during your life, why wouldn't you want to continue doing that after life?" says the landscape designer John Whitaker, who wrote his 2020 master's thesis proposing a similar scheme and won an ASLA Student Award of Excellence in General Design for it that year. "I think we are at a stage where people are really open to evaluating their personal impact on climate change and trying to lessen it in any way possible." ●

Harpo
landscapeforms®



Elegance, effortless and easygoing.

We believe that great design should stand the test of time and be sustainably crafted.

Harpo Seating & Table :
Slim in profile, robust in structure, elegantly architectural.

Designed by Urbidermis

Landscape Forms I
A Modern Craft Manufacturer

DESIGN. CULTURE. CRAFT.

A FOREST APART

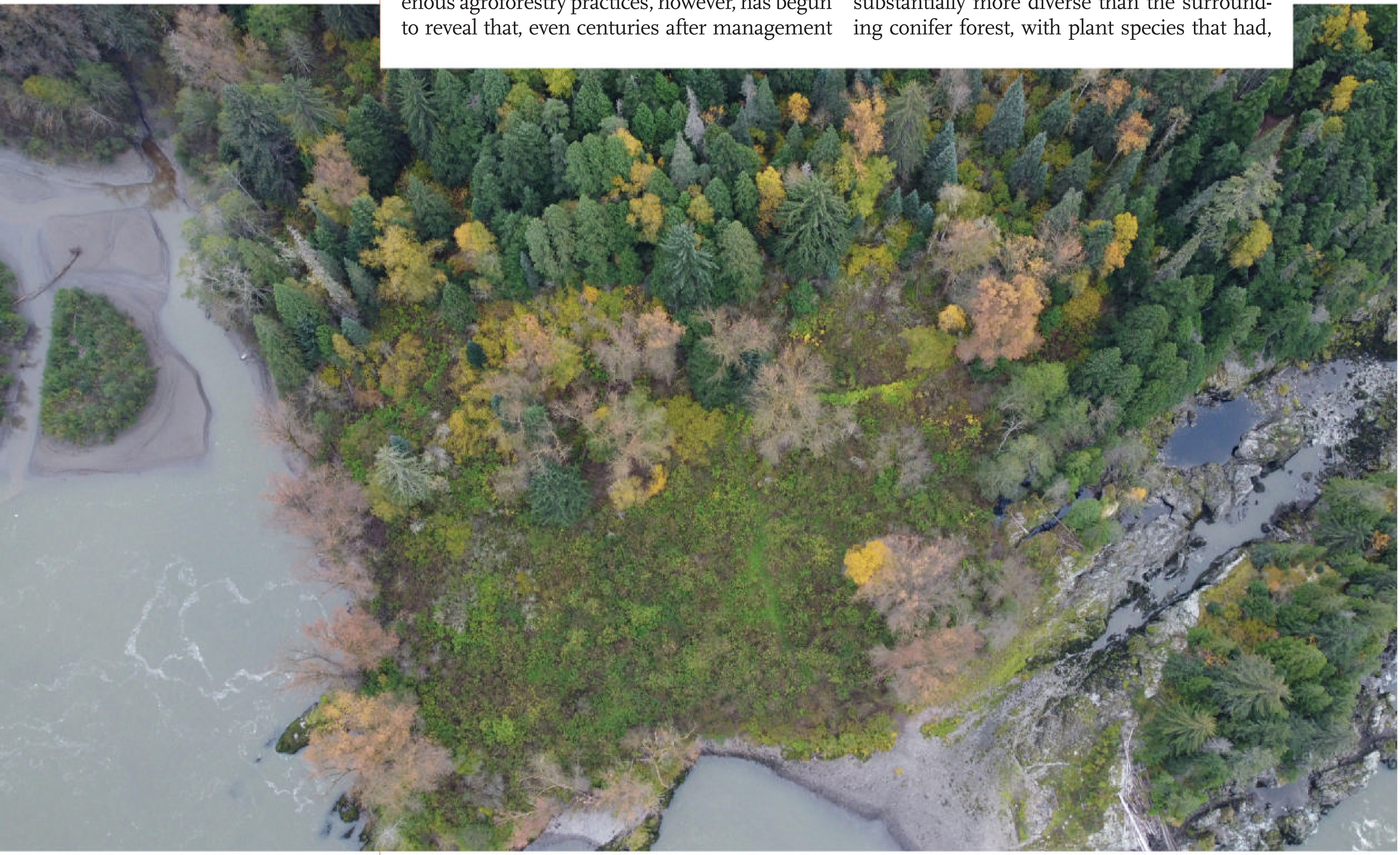
RESEARCH IS REVEALING THE ECOLOGICAL PERFORMANCE OF INDIGENOUS-CULTIVATED FOREST GARDENS.

BY TIMOTHY A. SCHULER

The myth that the lands that now constitute North America were a pristine wilderness at the time of European contact has been thoroughly disproven. But while Indigenous-designed landscapes were and are part of the history of the continent, it has been assumed, in scientific circles, that the specific character of those landscapes was lost to time. A growing body of research on Indigenous agroforestry practices, however, has begun to reveal that, even centuries after management ceased, forest ecosystems tended by Indigenous peoples remain ecologically distinct from the surrounding forest.

In British Columbia, Indigenous "forest gardens"—novel ecosystems of fruit-, berry-, and nut-producing species—associated with Ts'msyen and Coast Salish village sites were found to be substantially more diverse than the surrounding conifer forest, with plant species that had,

BELOW
At the Gitselasu village of Gitsaex in northwestern British Columbia, along the Skeena River, a once-cultivated forest garden still is distinguishable from the surrounding conifer forest.



STORM CARROLL

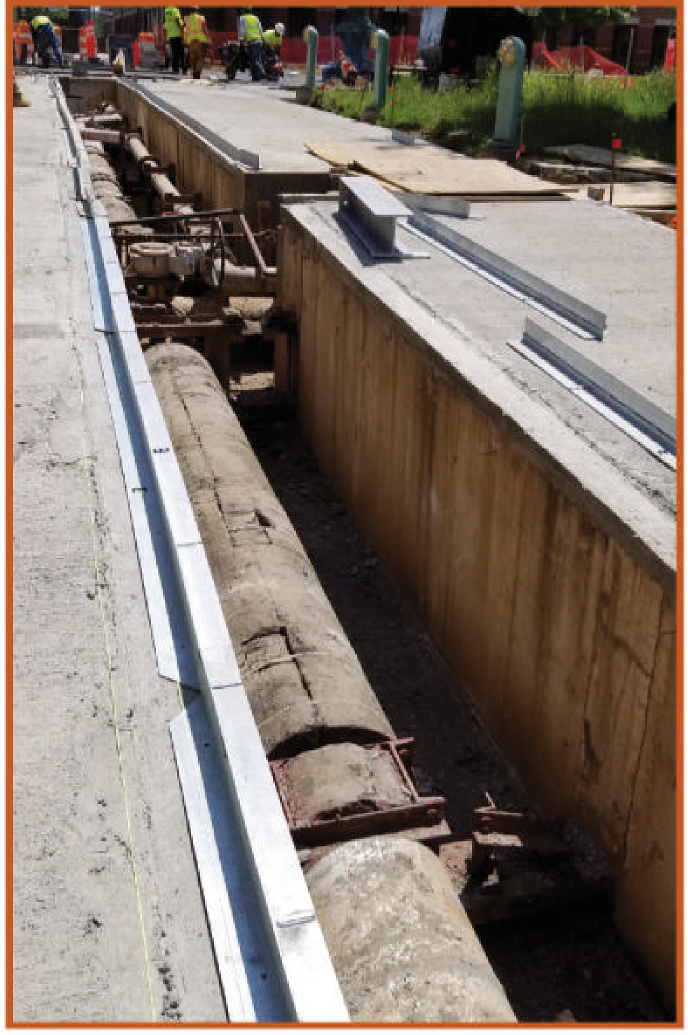
Call for a Quote: (775) 400-2883
sales@wundercovers.com

WunderCovers®
Hidden Manhole & Utility Access Covers

WHAT DO YOU HAVE TO HIDE?

Utility Access Covers • Manhole Covers • Drainage Covers
Tree Grates • Trenches • Vaults • More

PREP



INSTALL

COMPLETE

ORDERING IS EASY, CHOOSE

MADE IN USA

1) YOUR SIZE

- Hundreds of sizes
- Ask about custom

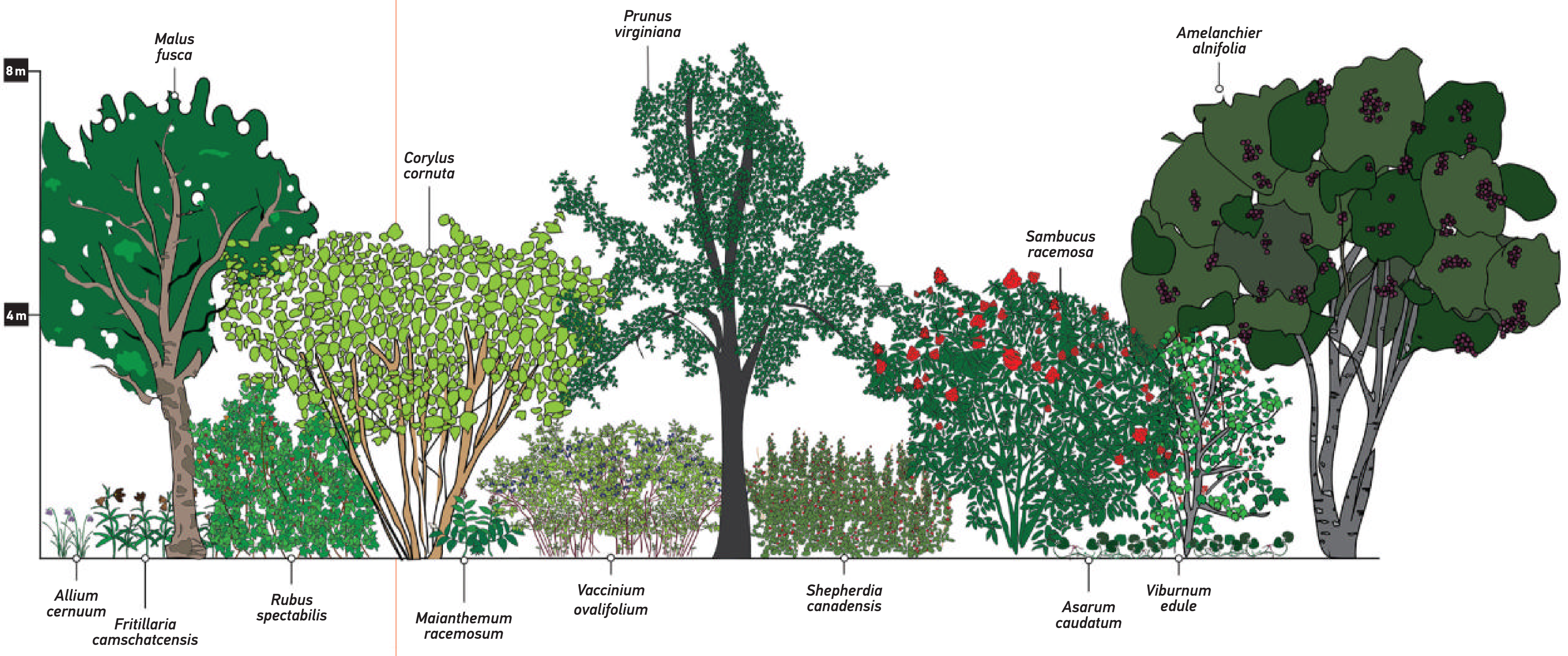
2) YOUR MATERIAL

- Stainless steel
- Galvanized steel

3) YOUR FILL

- Pavers
- Concrete
- Turf/Sod

WunderCovers are H-20 rated and seamlessly blend manhole, access, hatch, vault and utility covers into their surroundings.


8 m
4 m
Malus fusca
Corylus cornuta
Prunus virginiana
Sambucus racemosa
Amelanchier alnifolia
Allium cernuum
Fritillaria camschatcensis
Rubus spectabilis
Maianthemum racemosum
Vaccinium ovalifolium
Shepherdia canadensis
Asarum caudatum
Viburnum edule

TOP
Temperate forest gardens are more biodiverse than many unmanaged forests.

ABOVE RIGHT
Chelsey Geralda Armstrong is among the researchers who are revising beliefs about human civilization's impact on the surrounding ecosystem.

CHELSEY GERALDA ARMSTRONG, TOP; TROY MOTH, LICHENPROJECT.ORG, INSET

on average, larger seeds and were more likely to be pollinated or dispersed by animals. "What it suggests is that these forest gardens are really important resources for animals and pollinators" and continue to serve as biodiversity hot spots today, says Chelsey Geralda Armstrong, the director of the Historical-Ecological Research (HER) Lab at Simon Fraser University and the author of several studies on the subject.

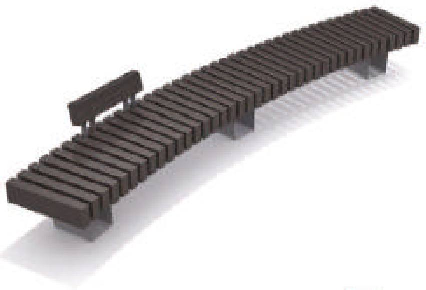
The findings provide further evidence of the scale and impact of Indigenous land management and challenge accepted notions about the relationship between land use and ecosystem health. What appear to be naturally occurring—or, in the case of the forest gardens, anomalous—ecosystem traits may in fact be the result of human intervention. "It changes the framing," says Frank Kanawha Lake, a research ecologist and tribal liaison with the U.S. Forest Service, who is of Yurok, Mexican, and European descent. Lake says that examples of similar agroforestry practices exist across the continent but that scholarship on them is only now beginning to appear.

"Chelsey and her colleagues are able to show the mark that Indigenous cosmologies have on landscapes," says Zoe Todd, a Red River Métis scholar and anthropologist at Simon Fraser University who was not involved in the research. The fact that Indigenous management resulted in increased biodiversity, and that those increases can be measured 150 years later, not only refutes the narrative that "these places were untouched," Todd says, "but it really pushes against that dominant, received idea that all human impact on landscapes is negative."

Within the Ts'msyen and Coast Salish communities with which Armstrong works, the implications of the research are much more intimate. They want to see their forest gardens thriving once again. "There's interest in the science," Armstrong says. "But it is always, without question, *how do we bring them back?* That is everyone's top objective." ●

STREETLIFE®
Rough&Ready
Hover Shades

Project: **Joshua Glover Park** by **DTAH** *Location:* **Toronto (CA)**



Rough&Ready Curved Bench TWIN
in All Black (recyclate)

Solid Surf Isle

High Grass Pillars

Green Circular Bench

STREETLIFE AMERICA Philadelphia, PA I usa@streetlife.com I www.streetlife.com I t. 215 247 0148

LISTEN TO REASONS

A NEW PODCAST AIMS TO DEMYSTIFY THE GREEN NEW DEAL AND ITS IMPLICATIONS FOR THE PROFESSION.

BY ANJULIE RAO

JOSÉ ALFREDO RAMÍREZ

CLARA OLÓRIZ SANJUÁN

COURTESY JOSÉ ALFREDO RAMÍREZ AND CLARA OLÓRIZ SANJUÁN

Since Senator Edward J. Markey and Representative Alexandria Ocasio-Cortez introduced the Green New Deal (GND) house resolution to Congress in 2019, architecture and landscape architecture educators have been teaching emerging designers to grapple with the possibilities of a carbon-neutral future outside the formal landscape practice (see "The Year of the Superstudio," *LAM*, April 2022). Faculty are educating students on the interconnected systems related to economic policy, social movements, and the built environment, effectively blurring boundaries between areas of expertise.

A new podcast, *Green New Deal Landscapes,* is tapping into that interdisciplinary ethos. Created and hosted by José Alfredo Ramírez and Clara Olóriz Sanjuán, both educators at the Architectural Association School of Architecture in London and codirectors of AA Groundlab, it endeavors to showcase precisely how these boundaries can be fractured through landscape practice. Produced by urbanNext, the eight-episode podcast was born of an issue of *Architectural Design* (*AD*) guest edited by Ramírez.

The *AD* issue presented a full breadth of articles and case studies addressing pressing concerns such as decolonizing climate action (by Manuel Shvartzberg Carrió and Danika Cooper), rare earth extractions (by Godofredo Enes Pereira, Christina Leigh Geros, and Jon Goodbun), and defining the shift toward "green labor" (by Julian Siravo). Yet, according to Ramírez, the journal's structure presented physical limitations. "The *[AD]* issue has a very strict format—a number of contributors that is limited, a number of words which is also fixed, etcetera," he says.

The podcast, which aired a year after the issue was published, allows the hosts to expand on some of the ideas presented in the journal and invite new voices. The format is conversational, with each speaker bringing a unique set of issues and research. "One of the intentions of the podcast is to show or broadcast an array of practices that perhaps hint towards different types of practice," Ramírez says. "It's understanding that there might be other ways of working, perhaps other objectives that are not necessarily only profit-seeking, but perhaps community-driven—

Trees are invaluable assets to our communities.

A properly designed irrigation system will support the health and longevity of trees helping to maximize their benefits. This means creating targeted irrigation applications with purpose-built products.

For best-in-class solutions to irrigate trees in a range of settings, **download our brochure**.

https://hunter.info/**TreeSolutions**

RESIDENTIAL & COMMERCIAL IRRIGATION
Learn more. Visit hunterindustries.com

or your research may be so different, the impact that it may have, the resources that you get.”

What the various practices had in common was grappling with new methodologies and philosophies that expand the GND beyond the scope of U.S. House Resolution 109. Jane Hutton and Alison Creba spoke on deconstruction and material life spans. Even “new” aluminum, they said, is a material that possesses generations in the ground before extraction. Such a perspective invites the profession to consider larger timescales more thoroughly. In another episode, Danika Cooper and Manuel Shvartzberg Carrió spoke as a follow-up to their *AD* article, “The Red Deal,” on the importance of Indigenous practice and participation in decarbonization. The episode helps reframe design “innovation” from new technologies to encompass and embrace decarbonization methods that have been practiced historically by Indigenous groups.

“These agendas cannot work within national boundaries, particularly from a Global North country,” Sanjuán says. “We constantly think about the GND with global dimensions because the global perspective of consequences, responsibilities, material flows, and social consequences [is] key to our potential contribution as designers.”

Like these border-crossing agendas, the podcast format has the potential to bolster communication around the GND and multidisciplinary decarbonization practices past academia and the landscape design profession and move such conversations into the public realm. But it has to be done strategically. “There’s such complexity for things that have an appearance of simplicity, like mobile phones or computers or any aspect of a light switch. I found in some conversations that some people openly say, ‘We don’t want to know.’ So it’s tricky,” Sanjuán says.

“I don’t think people are going to understand the crisis as molecules of carbon, but how the potential future could actually look,” Ramírez says. “In the production of images, we [designers] make people understand that if we produce certain transformations, even in our own houses, that future is not far away; it’s not science fiction, but it’s something that is potentially possible. That would be crucial, to make that strong connection to the public.” ●

“THESE AGENDAS CANNOT WORK WITHIN NATIONAL BOUNDARIES.”

—CLARA OLÓRIZ SANJUÁN

Look on the
green
side.

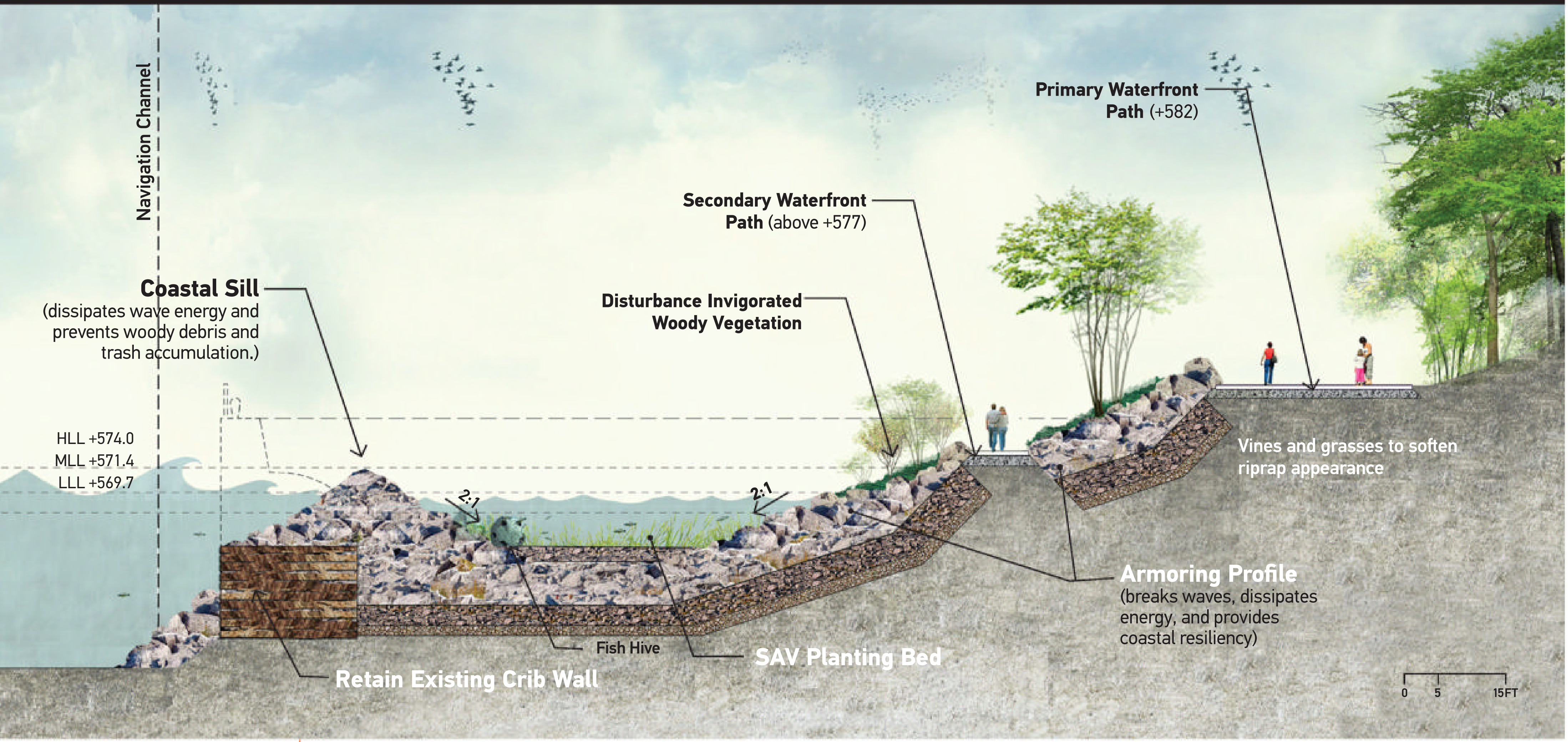
The view is greener from every side with greenscreen® panels. Create naturally beautiful fences that act as captivating centerpieces of living art. Whether it's for privacy, defining spaces, wayfinding, or security, our lightweight yet durable panels can be customized to fit the needs of any project, making for the kind of screens that change the way you view each day.

Project: Taylor 28, Seattle, WA
Architect/ Landscape Architect: Mithun
Installer/Contractor: Compass Construction

greenscreen®
Engineering Nature.

greenscreen.com

SMART MONEY


Navigation Channel
Coastal Sill
(dissipates wave energy and prevents woody debris and trash accumulation.)
HLL +574.0
MLL +571.4
LLL +569.7
2:1
2:1
Secondary Waterfront Path (above +577)
Disturbance Invigorated Woody Vegetation
Primary Waterfront Path (+582)
Vines and grasses to soften riprap appearance
Armoring Profile
(breaks waves, dissipates energy, and provides coastal resiliency)
Fish Hive
SAV Planting Bed
Retain Existing Crib Wall
0
5
15FT

ONE OF THE BIGGEST SOURCES OF FUNDING FOR COASTAL ADAPTATION WORK IS GRANTING MORE THAN EVER.

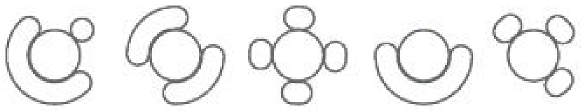
BY JARED BREY

Strong winds that blow from the southern shores of Lake Erie don't stop until they hit Buffalo, New York, creating massive surges of water called seiches that crest on one side of the lake, then rock back and forth between Ohio and New York until they reach equilibrium again. All that volatility batters the coast. In Buffalo, an aging bulkhead that lines the lakeshore will soon be transformed into a softer, more resilient barrier as part of the design for Ralph C. Wilson, Jr. Centennial Park, funded in part by a grant from the National Coastal Resilience Fund.

The fund, part of the National Fish and Wildlife Foundation, was created by Congress in 2018 and last year awarded $136 million for 96 projects across the United States, its biggest slate of grants to date. Supported by federal agencies such as the National Oceanic and Atmospheric Administration and the Department of Defense, along with private funders such as Shell and the Bezos Earth Fund, the National Coastal Resilience Fund was also bolstered by $93.7 million in new funding last year from the Infrastructure Investment and Jobs Act. Grants require matching funds and ranged in size last year from $100,000 to $9,980,700. They support projects that make communities less vulnerable to coastal hazards and improve ecosystems and wildlife habitats.

ABOVE
A section of Buffalo, New York's Lake Erie shore is being reconstructed to reduce the flood risk and to provide habitat for plants and fish.

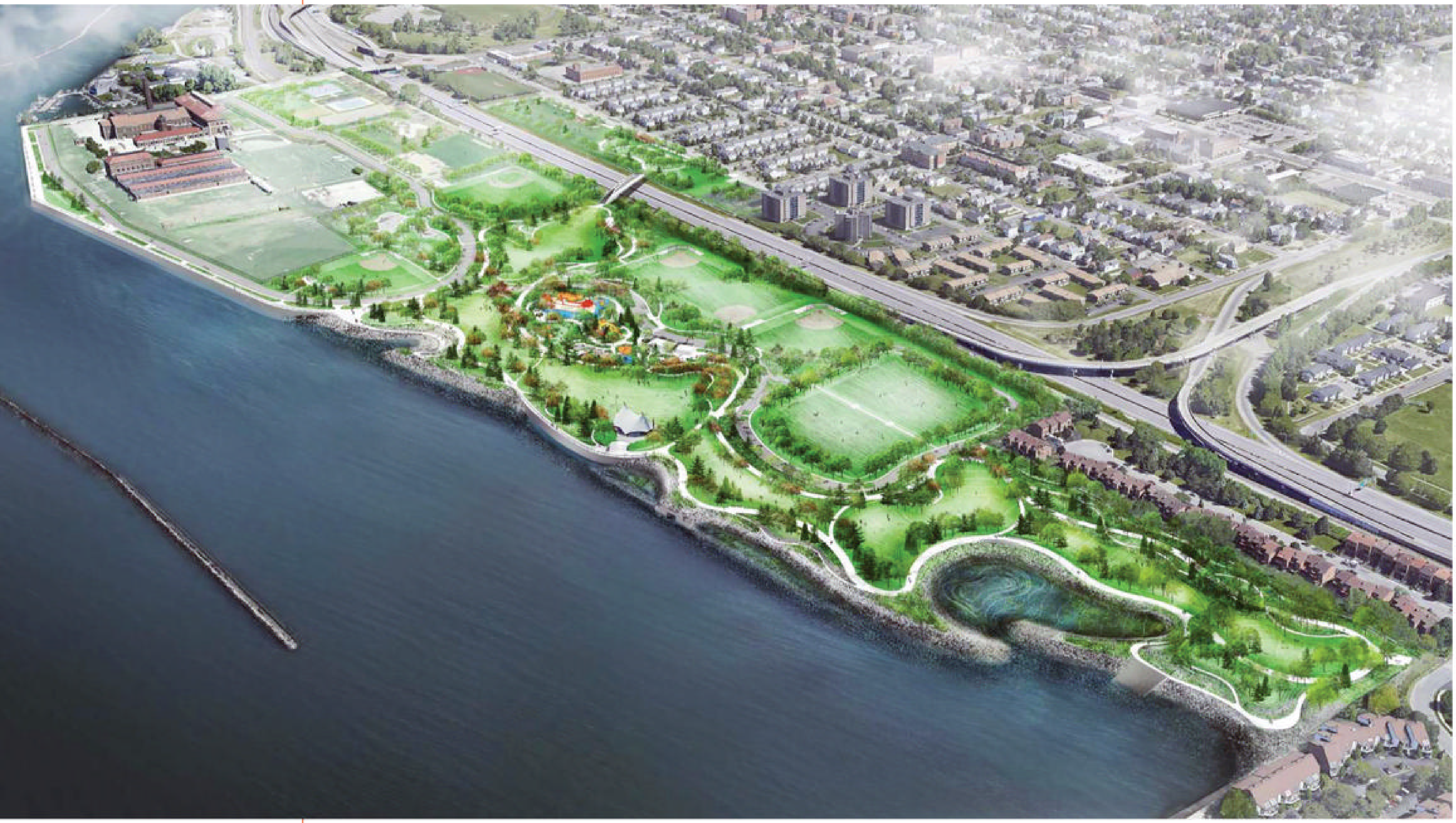
MICHAEL VAN VALKENBURGH ASSOCIATES



FAVA features larger seat surfaces, flexible configuration and wheelchair accessibility in one charming cluster.

MAGLIN®
Site Furniture

800.716.5506 | www.maglin.com



MICHAEL VAN VALKENBURGH ASSOCIATES

ABOVE
Applications for the grants are required to show benefits to both wildlife habitat and human communities, as Michael Van Valkenburgh Associates did for Ralph C. Wilson, Jr. Centennial Park in Buffalo.

The program funds the design and implementation of nature-based solutions in low-lying watersheds that drain to the sea and the Great Lakes. Eligible projects "must demonstrate a dual benefit to both coastal communities and habitats," says a 2022 request for proposals. Priority is given to projects that benefit underserved communities or that demonstrate scalable or transferable designs.

Buffalo's Ralph C. Wilson, Jr. Centennial Park started out with a planning grant from the Ralph C. Wilson, Jr. Foundation to rethink 30 to 40 acres of an existing park. Through the engagement process, the project area grew to 100 acres, and the community identified opportunities to enhance the shoreline for human recreation and wildlife habitat, says Paloma Garcia, a senior associate at Michael Van Valkenburgh Associates, the project's landscape architect. The shoreline work involves installing riprap slopes and a new launch point for small boats, as well as creating a protected inlet with improved habitat for fish and several communities of aquatic and terrestrial plants. The project, scheduled to begin this spring, will also prevent the flooding of 13 acres that are currently inundated during seiche events. It wouldn't have been possible to see the full vision through without the $4.5 million National Coastal Resilience Fund grant, Garcia says.

"There are funding opportunities out there that are not necessarily tied to landscape architecture as we usually think about it," she says. ●

The Magic of Aqua Play

aquatix®
by landscape structures

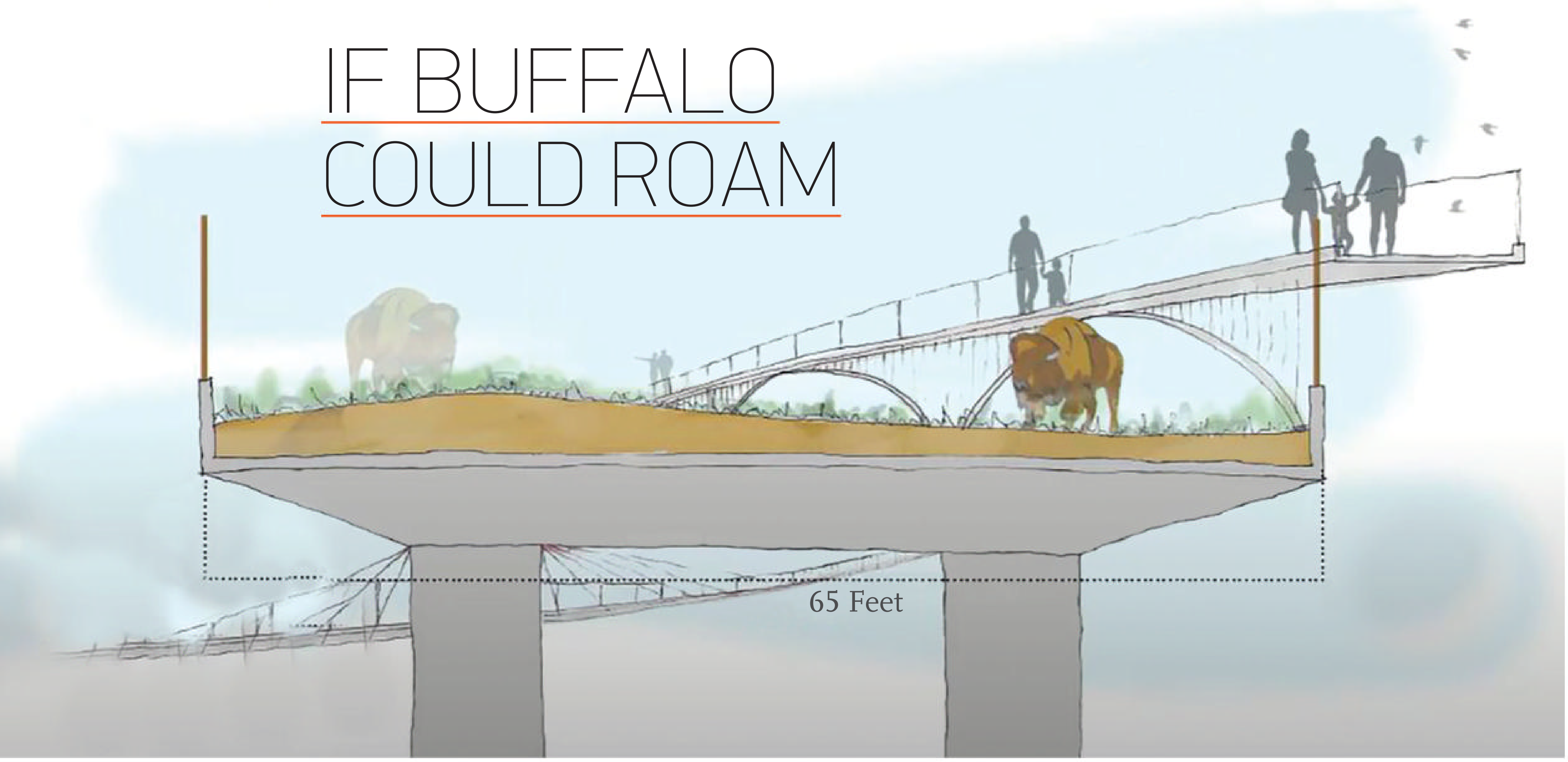
Aqua Play is for Everyone Everywhere

As leaders in visionary aqua play, Aquatix® knows no boundaries when it comes to interactive water-based encounters, inventive escapades and thrilling surprises. Our splashtastic products engage kids' imaginations, encourage exploration and deliver exhilarating new experiences with water to people of all abilities and on splash pads of all sizes.

Find your magic for your splash spaces at aquatix.playlsi.com

©2023 Landscape Structures Inc. All rights reserved.

IF BUFFALO COULD ROAM



ABOVE
Produced as part of the Xtreme LA challenge, one concept for how to accommodate both people and bison on the existing I-80 bridge.

COURTESY LANDSCAPE FORMS

AN UNUSUAL WILDLIFE CROSSING COULD SPUR PRAIRIE RESTORATION ON BOTH SIDES OF THE MISSISSIPPI RIVER.

BY TIMOTHY A. SCHULER

On a warm day in June 2022, Conor O'Shea, ASLA, an assistant professor of landscape architecture at the University of Illinois Urbana–Champaign (UIUC), and a group of his students found themselves on a houseboat on the Mississippi River. They were there at the invitation of Chad Pregracke, the houseboat's owner and the founder of Living Lands & Waters, a nonprofit organization that conducts river cleanups up and down the Mississippi. Joining the students were transportation officials, aides from state representatives' offices, mayors of various Quad Cities municipalities, bicycle and pedestrian advocates, and a second group of landscape architecture students from Iowa State University (led by associate professor Tom Neppl). "They had the houseboat packed," recalls O'Shea, who is also the founding principal of Hinterlands Urbanism and Landscape.

They were there to consider the future of the Interstate 80 bridge that connects Illinois and Iowa. Outdated and deemed structurally unsound, the 56-year-old bridge is currently the subject of a planning study by the two states' departments of transportation (DOT). The current structure, according to officials, is undersized for future traffic needs and does not meet current safety standards. Four alternatives are currently being considered. Two involve reusing the existing alignment for a replacement bridge, which would require the demolition of the existing structure. The other two involve the construction of a new bridge either to the north or to the south of the existing alignment and would not require demolition. (Each alternative technically includes two new bridges; the plan is to build separate structures for east- and west-bound traffic.)

If the states select either of the latter options, Pregracke thinks the existing I-80 bridge should be saved. And

KEYSTONE RIDGE® DESIGNS

THE WILMINGTON TABLE

The Wilmington Picnic Table evokes a modern rustic vibe with the simple elegance of a U-frame design. With wood-grain aluminum KeyshieldArt™ slats, it comes in a variety of realistic wood tones and offers superior outdoor durability.

learn more

www.keystoneridgedesigns.com 800-284-8208 MADE IN THE USA

RIGHT
The bridge does not meet safety standards for car traffic but could be repurposed for pedestrians and cyclists. Or bison.

BELOW
Chad Pregracke of the Bison Bridge Foundation, a longtime Mississippi River advocate, explains his vision.

he has an idea of what to do with it. "I'm not a bison expert. I just think they're cool. They're tough as shit, and there were 60 million of them, from Canada all the way down to the Gulf," Pregracke says. "They were a staple of the landscape. And I think they're worth highlighting."

Pregracke's vision is to repurpose the current I-80 bridge as a wildlife crossing of sorts. One half of the existing four-lane bridge would be "naturalized" with imported soil and prairie plants so that a small herd of bison could use it as a connector between pastures of restored native prairie on either side. The other half—protected by some sort of barrier—would be converted into a cycling, walking, and observation path. If built, the attraction would be part zoo, part wildlife crossing, and part active transportation corridor. More simply, it would be an elevated, linear wildlife corridor.

If it sounds unlikely, for Pregracke, that's part of the pitch. The absurdity of a herd of bison ambling over the Mississippi is enough to make a person stop, he figures, and that's something the Quad Cities region—containing Davenport and Bettendorf, Iowa, and Moline, East Moline, and Rock Island, Illinois—needs. "There's 43,000 cars a day on there, and no one is stopping," he says, referring to this stretch of I-80, and the Quad Cities more generally, a place Pregracke has spent most of his life. Inspired by wildlife viewing areas in places like Colorado, the Bison Bridge, as Pregracke has dubbed his proposal, has the potential to become an attraction on the level of Mount Rushmore or the St. Louis Gateway Arch, he says, bringing with it opportunities for economic development. More importantly, it could spark interest in larger-scale prairie and bison restoration and help educate Americans about the animal's cultural, ecological, and historical significance. "It's a travesty and a success story all in one," Pregracke says of the species.

The Bison Bridge would be unusual in that it would not connect existing pockets of habitat, as is the case for the new Wallis Annenberg Wildlife Crossing outside Los Angeles, for example. Instead, it could be a catalyst for developing new habitat on either side of the bridge, where existing rest areas and other state-owned lands are degraded or underused, Pregracke says.

The American tallgrass prairie has been reduced to less than 4 percent of its historic range. In Iowa and Illinois, the figure is less than 1/10 of a percent. To reverse the trend, the Nature Conservancy and others are working to restore the biome, building on existing remnants and restoring farmland to its preagricultural state. In many cases, such as at Nachusa Grasslands in Illinois and

KIRT MARTIN, TOP; COURTESY LANDSCAPE FORMS, MICHAEL HERRICK PHOTOGRAPHY, BOTTOM

100 Years **NITTERHOUSE** Family Owned & Operated Since 1923

Camina Paving Stones

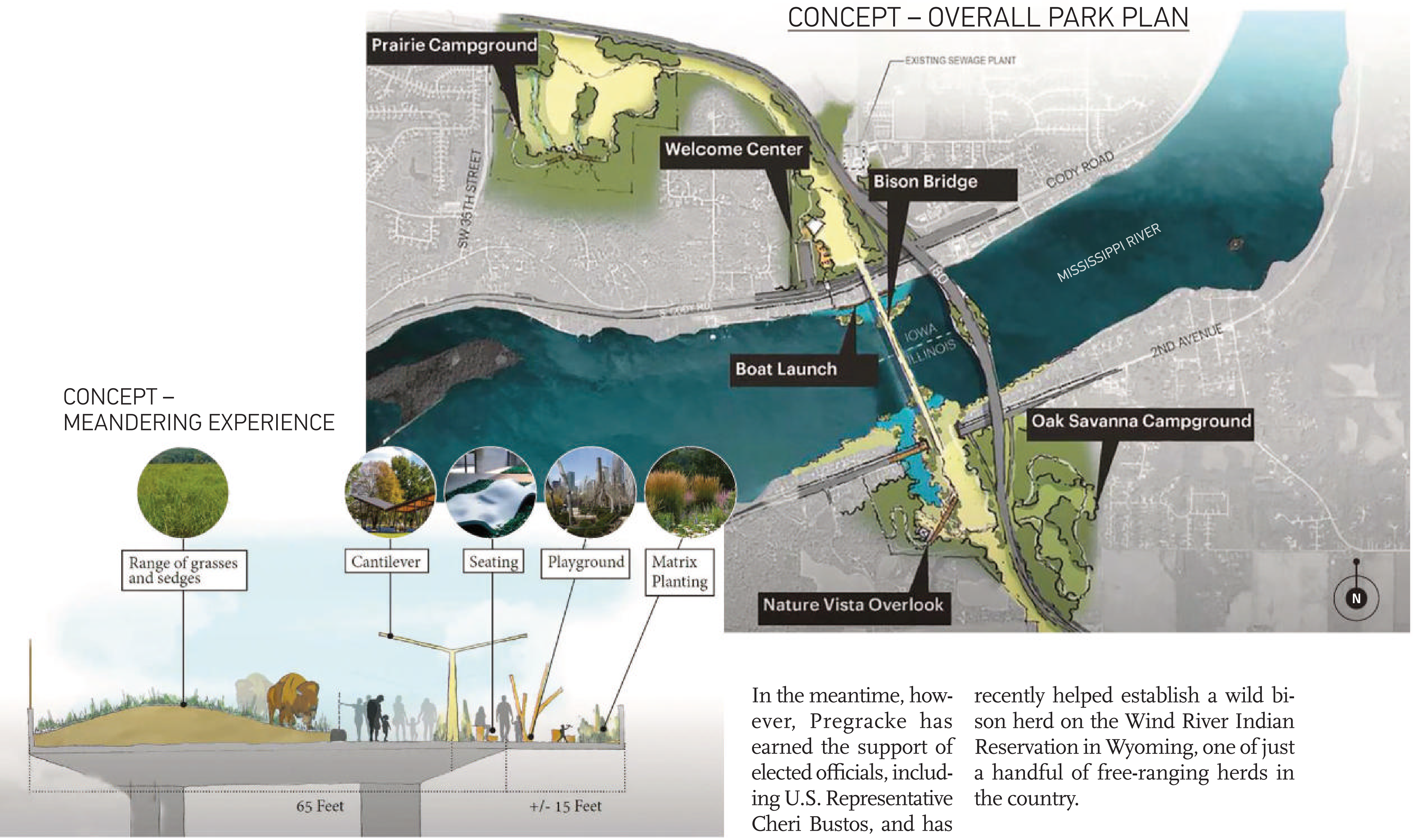
Our grooved paving stones offer a unique linear look

The dimensions between the grooves is completely customizable with two different finishes on the face to create variations of color and texture.

NITTERHOUSE

MASONRY PRODUCTS, LLC

WWW.NITTERHOUSEMASONRY.COM


CONCEPT – OVERALL PARK PLAN
Prairie Campground
EXISTING SEWAGE PLANT
Welcome Center
Bison Bridge
CODY ROAD
SW 35TH STREET
MISSISSIPPI RIVER
I-80
IOWA
ILLINOIS
Boat Launch
2ND AVENUE
Oak Savanna Campground
Nature Vista Overlook
N
CONCEPT – MEANDERING EXPERIENCE
Range of grasses and sedges
Cantilever
Seating
Playground
Matrix Planting
65 Feet
+/- 15 Feet

ABOVE
Through a series of workshops, landscape architecture students and professionals explored potential schemes for the adaptive reuse of the bridge.

COURTESY LANDSCAPE FORMS

Broken Kettle Grasslands in Iowa, restoration projects have gone hand in hand with the reintroduction of bison, which, besides being a keystone species, are critical to biodiversity. Recent research, published in the *Proceedings of the National Academy of Sciences,* found that the reintroduction of bison doubles the taxonomic diversity within the tallgrass prairie and also increases the ecosystem's overall resilience to drought.

A final recommendation regarding a new I-80 bridge is expected by the end of 2023. (State officials have said they won't comment on the proposal while the current planning study is underway.) Depending on the outcome, the Bison Bridge may be moot. In the meantime, however, Pregracke has earned the support of elected officials, including U.S. Representative Cheri Bustos, and has enlisted a small army of design professionals and students to help flesh out his vision.

That day in June, the students from UIUC and Iowa State had been invited, along with professionals from Streamline Architects and the Lamar Johnson Collaborative, to participate in a one-day workshop. Hosted by Living Lands & Waters and the newly established Bison Bridge Foundation, the students spent the day studying the bridge from both land and water and listening to various speakers. Among them was Jason Baldes, the tribal buffalo program manager for the National Wildlife Federation and a member of the Eastern Shoshone Tribe, who joined via Zoom. An authority on bison restoration, Baldes recently helped establish a wild bison herd on the Wind River Indian Reservation in Wyoming, one of just a handful of free-ranging herds in the country.

"For 30 minutes, he just dropped all these knowledge bombs about bison," O'Shea recalls. "Their wallowing habits, the way that they patch graze, how they can be an accelerating agent for reestablishing prairie, all that stuff." The workshop ended with an hour-long charrette in which the students explored ideas for how to integrate the bridge's two main users—bison and people—including strategies for circulation, safety, and comfort.

Also at the workshop that day was John Scott, the director of marketing for Landscape Forms. Tipped off by Chip Crawford, FASLA, a managing director at the Lamar Johnson Collaborative, Landscape Forms was considering the Bison Bridge for its annual Xtreme LA Challenge, a design

MANHOLE COVER

CUSTOM INLET

CATCH BASIN GRATE

PATTERN SPOTLIGHT:

OBLIO

TREE GRATE

Material/Finish: Cast Iron/Powder Coat
Design: The Olsson Studio
Project: Grandscapes, The Colony, TX
(also shown: Oblio 9" Straight & Radius Trench Grates)

RADIUS GRATE

IRON AGE DESIGNS

Decorative grates, site furnishings and custom castings

IRONAGEGRATES.COM
info@ironagegrates.com | 877-418-3568
Made in the USA from Recycled/Recyclable Materials

SCAN FOR SIZES & SPECS

LA CES
AIA Continuing Education Provider
CADdetails

> “WE LOOKED AT BIRDS OR BATS THAT COULD USE THE UNDERSIDE OF THE BRIDGE AS A NESTING AREA.”
>
> —PETER GRAHAM

ABOVE
Yimeng Wang, a landscape designer at Omni Workshop, sketches during the Xtreme LA event.

COURTESY LANDSCAPE FORMS; MICHAEL HERRICK PHOTOGRAPHY

intensive for landscape architecture students and emerging professionals cosponsored by the Landscape Architecture Foundation. “[John] came back and said, ‘Yeah, this is really cool,’” recalls Kirt Martin, Landscape Forms’s chief creative officer.

The 2022 Xtreme LA event was held in mid-October in Davenport, Iowa. Returning UIUC and Iowa State students were paired with professionals from area firms and divided into two teams, led by Chad Brintnall, ASLA, of SmithGroup and Khyati Saraf of Michael Van Valkenburgh Associates. Building on some of the ideas from the June workshop, the teams considered land use, ecology, circulation, and potential visitor amenities for the Bison Bridge idea. The resulting concepts revealed just how much environmental potential is embedded in the country’s aging infrastructure. For instance, one team proposed treating the 3,500-foot-long bridge as a vertical armature for all sorts of wildlife habitat. “We looked at birds or bats that could use the underside of the bridge as a nesting area, and also at the level of the river—birds that would be on or wading in the water,” says Peter Graham, one of the Iowa State students.

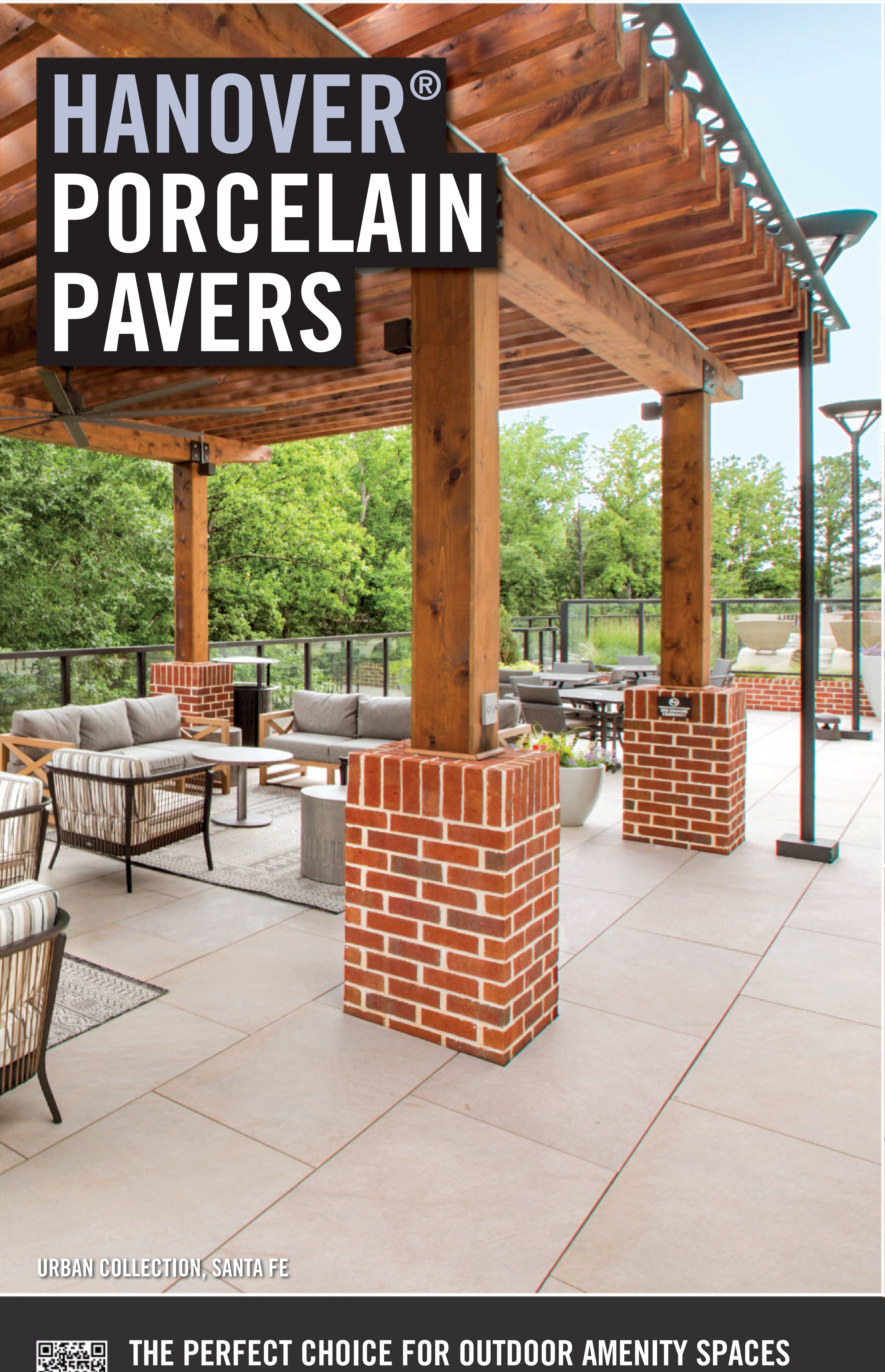
“We made a section showing the different layers of habitat and how they would interact with each other,” says Allison True, Student ASLA, another Iowa State student who was on Graham’s team. “We kept in mind white-nose syndrome [a fungal disease that has killed more than six million bats in the United States since 2006 and that can be inadvertently spread by humans] and how to keep [the bats] below the bridge and separate from humans.”

Another idea was to artificially create a tallgrass prairie/deciduous forest ecotone on the bridge as a way to marry the dominant ecosystems of the two sides of the river. “We wanted to create a transition from prairie to forest on the bridge,” says Anne Tong, a UIUC student on the same team.

Both teams recommended using grading and elevation to provide experiential variety as well as separation between visitors and the bison. This took the form of walkways on top of earthen berms (providing the additional benefit of increased soil depths) or a pair of continuous, ribbonlike boardwalks, cantilevered or suspended from the bridge to accentuate the structure’s existing monumentality.

How a herd of bison, animals that can weigh up to 2,000 pounds and leap as high as six feet, would react to such an unnatural condition—i.e., forced to share an already narrow space with cyclists and tourists—is a question that has come up often, Pregracke says. Baldes says that bison, or buffalo, are adaptable creatures and that there are simple, proven ways to ensure the well-being of both the

HANOVER®
PORCELAIN
PAVERS



URBAN COLLECTION, SANTA FE

ISLAND COLLECTION, TURKISH WHITE MARBLE

URBAN COLLECTION, MANHATTAN

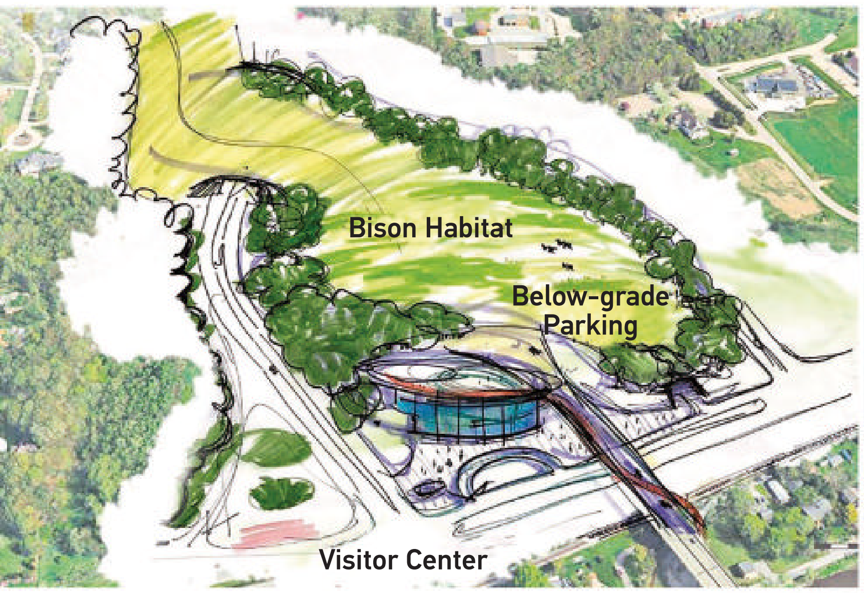
MEDITERRANEAN COLLECTION
SPANISH TERRACOTTA

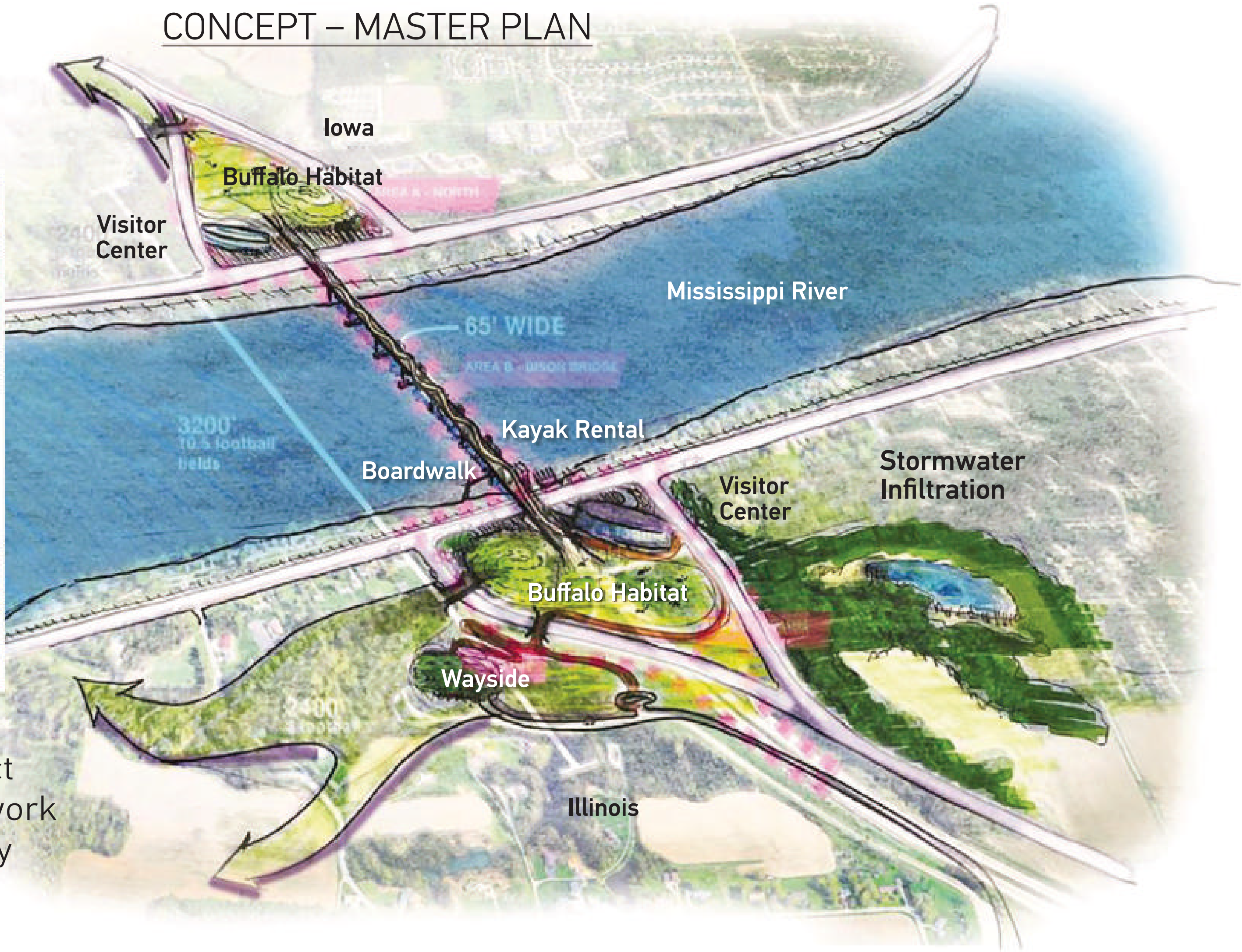
THE PERFECT CHOICE FOR OUTDOOR AMENITY SPACES

With an extremely low absorption rate, Hanover® Porcelain Pavers are the perfect paver choice for outdoor amenity spaces. They are anti-slip and resistant to weather, acid, and mold. Since they are non-porous, they will not stain and don't require sealing. Hanover® Porcelain Pavers are virtually maintenance-free, making them the perfect choice.

HANOVER®
Architectural Products
www.hanoverpavers.com • 800.426.4242

CONCEPT – WEST SIDE





ABOVE AND RIGHT
In both teams' concepts, vacant lands currently occupied by large interstate on-ramps would become bison habitat.

animals and people, such as bison fences along the edge of the bridge, as well as between the bison area and the visitor area. "If you didn't put a barrier up, you might have a buffalo jump off," he admits.

More important, Baldes says, is the makeup of the herd, which would need to be kept small, to maybe a dozen animals. "I would think that, as long as you had young animals—you know, yearlings and two-year-olds—that can become adapted to that environment and learn about crossing the bridge, then it wouldn't take them very long to know that that's their home," he says. He adds that it's likely that the bison would spend much of their time on the lands on either side of the bridge, making their way across it periodically.

Though Baldes is most interested in large-scale bison restoration, the Bison Bridge could aid in larger bison conservation efforts, he says, specifically by serving as one more genetic pool from which to pull individual animals, a practice necessary to ensure genetic diversity within the relatively few "conservation herds" that exist in the United States. Similarly, O'Shea sees the project as a potential node in an "emerging constellation" of bison reintroduction efforts. "There's the potential," he says, "once you have these patches, to actually think about corridors to connect those points in the constellation. You get closer to this idea of a nationally scaled bison network, where the bison are actually roaming from place to place. And maybe the adaptive reuse of motor infrastructure has to be part of that connectivity."

Important questions remain, including whether or not the bridge's structural capacity is sufficient for fully functioning prairie and forest ecosystems. And, of course, any reuse is dependent on the DOTs' forthcoming decision. But Barbara Deutsch, FASLA, the CEO of the Landscape Architecture Foundation, says it is critical that the United States begins to imagine new uses for its aging infrastructure. In that context, the I-80 bridge represents an opportunity to experiment.

"While it may not be sufficient for cars, the existing infrastructure is totally supportive of people and wildlife," Deutsch says. Rather than be demolished at a cost of millions of dollars, the bridge could have a second life as a "vital link between the two states and as a destination to learn about the river, the habitat, the buffalo," she says. "At the very minimum, it's a no brainer to make it a bike path and a pedestrian crossing. But the bison would make it unique in the whole world." ●

TIMOTHY A. SCHULER IS A CONTRIBUTING EDITOR TO THE MAGAZINE. HE LIVES IN THE KANSAS FLINT HILLS.

COURTESY LANDSCAPE FORMS

DARWIN Collection
by Lucidi / Pevere

it's in to be out®

We offer a wide selection of outdoor chairs, tables and lounge items which provide comfort, relaxation and enhance the ambiance of any setting. Through precise construction, choice of materials, demanding tests and standards, our products support heavy-duty use common to the foodservice, hospitality and corporate markets.

emu®

70 years of manufacturing
experience in outdoor furniture.
"Made in Italy" at its best.

emuamericas llc **800.726.0368** **www.emuamericas.com**

MIELA

Cast aluminum structure,
seat and backrest made of wooden slats
Design: David Karasek, Radek Hegmon

100 % RECYCLABLE BENCH BUT AFTER 30+ YEARS

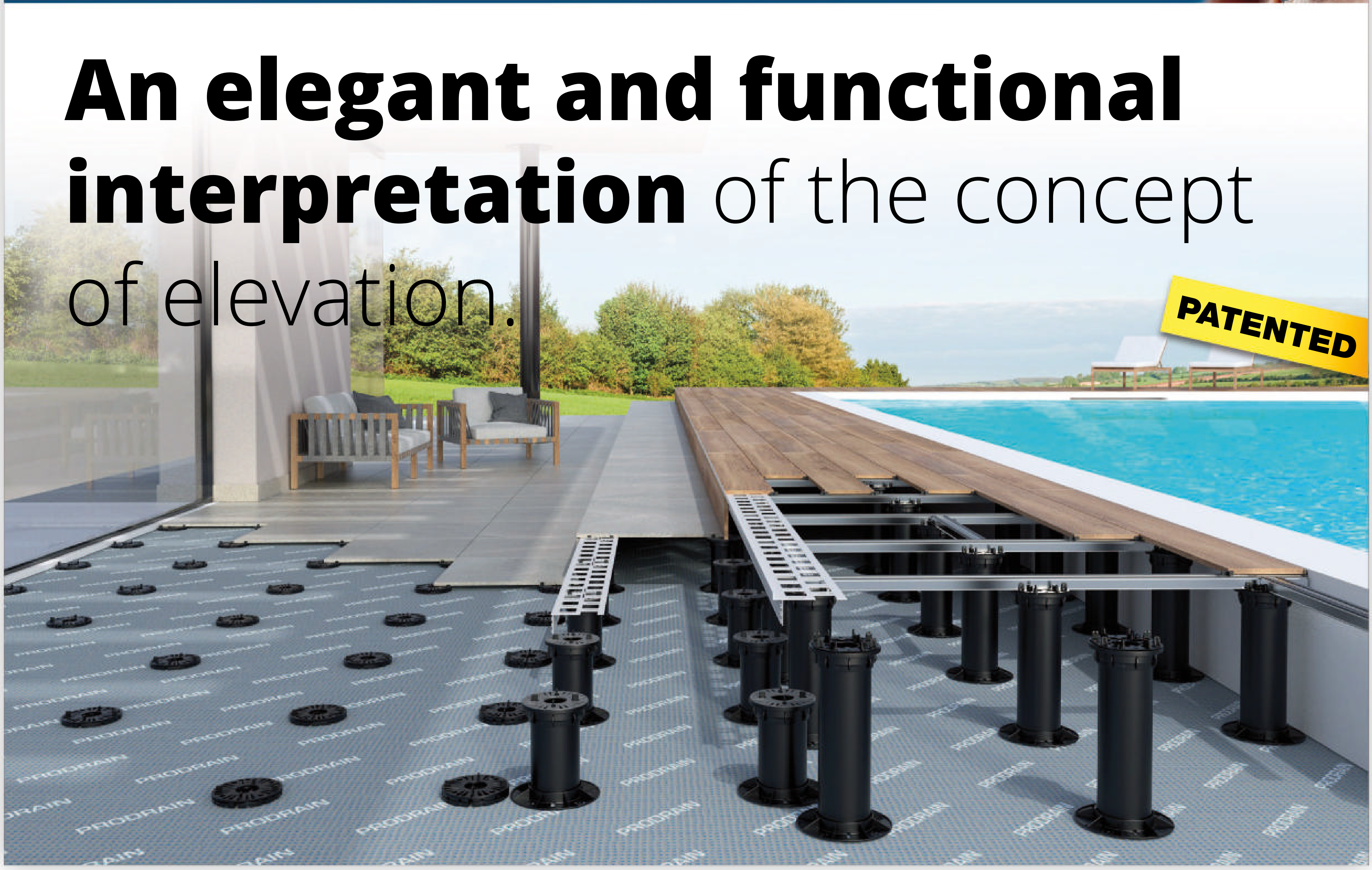
mmcite mmcite.com

mmcité

We make cities
smart and beautiful

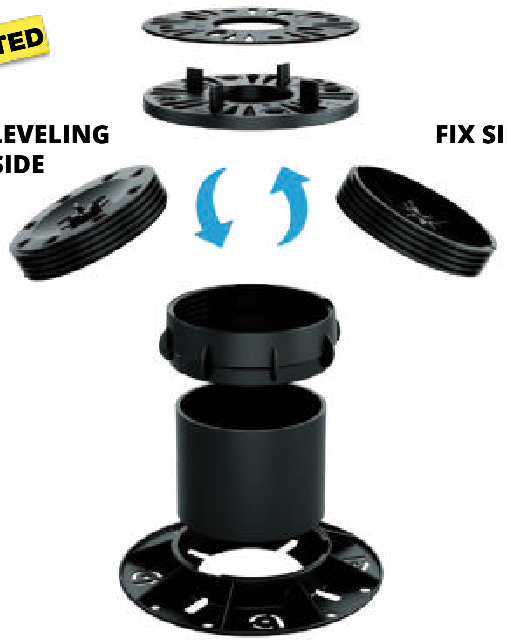
www.progressprofiles.com

An elegant and functional interpretation of the concept of elevation.



PROSUPPORT TUBE SYSTEM

PATENTED



PRORAIL SYSTEM

PATENTED

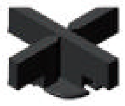
PRORAIL PROFILE

PRORAIL RET

PRORAIL RING

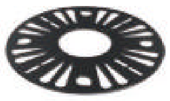
PRORAIL RUBBER

PRORAIL SPACER 02


PRORAIL SPACER 04

PROSUPPORT SLIM SYSTEM

ANTI-NOISE & ANTI-SLIP DISC


LEVELLER

3/8" BASE WITH FLAPS 3/32"

3/8" BASE WITH FLAPS 5/32"

North America Headquarter
Progress Profiles America Inc.
4 Middlebury Boulevard (Unit 14)
Randolph, New Jersey 07869 U.S.A
Tel. 973 584 2650
Fax973 584 2657
ppa@progressprofiles.com
www.progressprofiles.com

Available on the App Store

GET IT ON Google Play

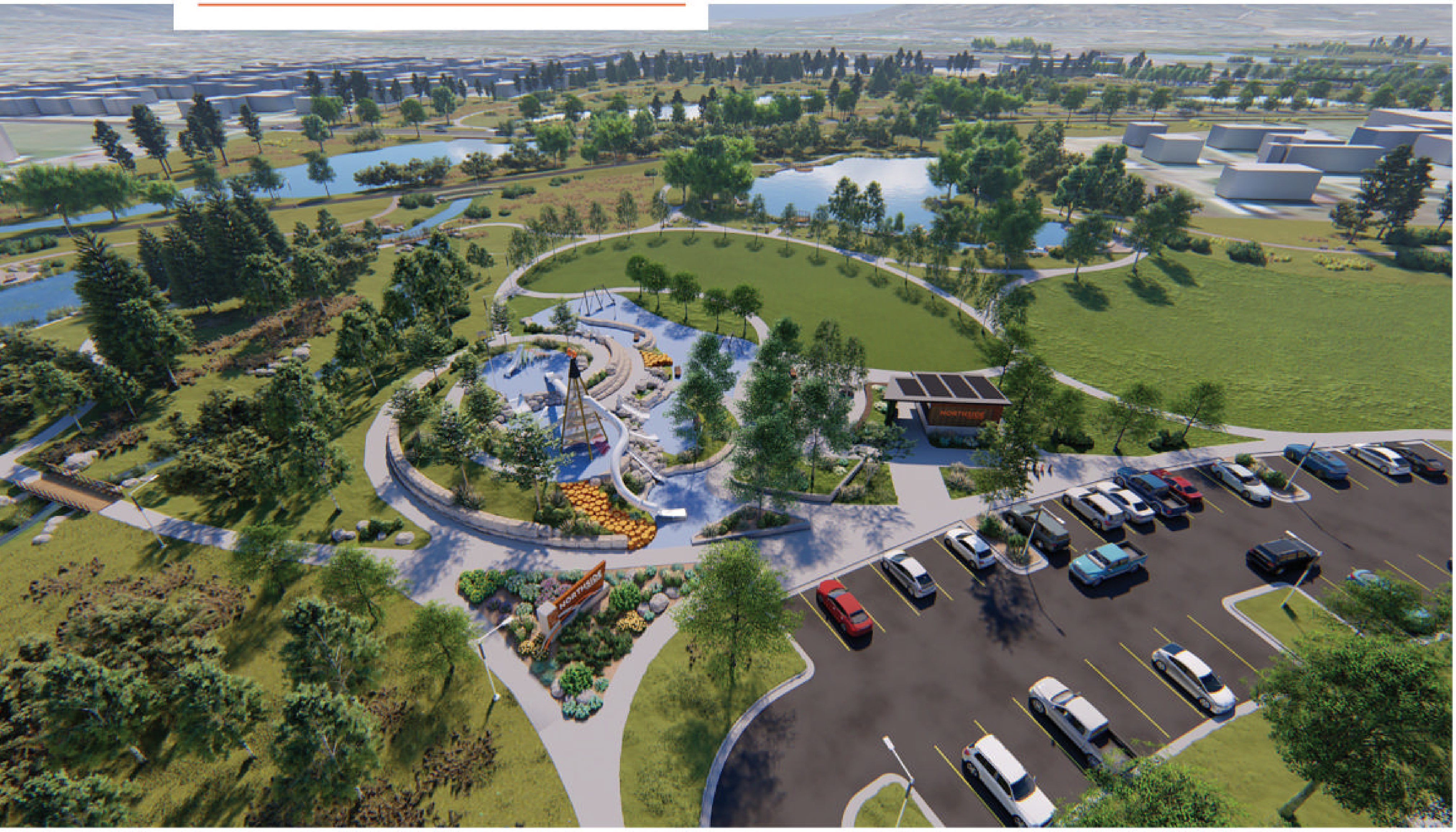
MADE IN ITALY

Corporate:
Progress Profiles SpA
Certified company UNI EN ISO 9001:2015

38
ANNIVERSARY 1985-2023

PROGRESS® PROFILES
PROFILES & SYSTEMS

THE HEART OF THE HILL



LAND DESIGN'S FRESH APPROACH TO A SUPERFUND SITE BRINGS THE PROSPECT OF A BETTER FUTURE FOR THE RESIDENTS OF BUTTE, MONTANA.

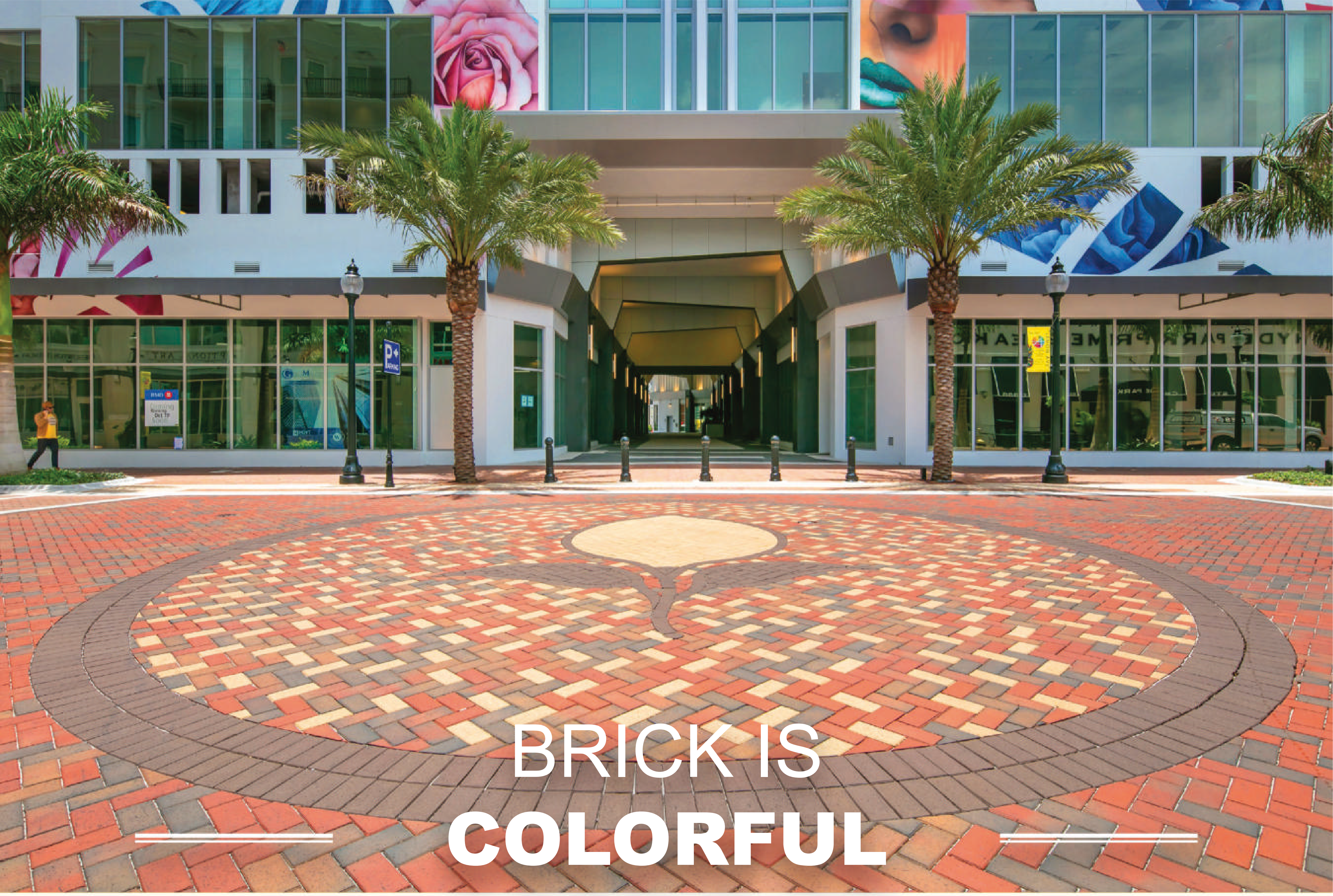
BY SARAH CHASE SHAW

ABOVE
The vision for Silver Bow Creek was years in the making.

LAND DESIGN, INC.

In November 2018, Stacey Robinson, ASLA, stood up in front of a group of roughly 100 people at the Butte Brewing Company and unveiled a master plan for 160 acres along the upper Silver Bow Creek in Butte, Montana. The Silver Bow Creek Conservation Area Master Plan, designed by the Billings, Montana-based Land Design, Inc., where he is a principal, envisioned a lush greenway corridor through the middle of Butte, its interconnecting trails linking to other trail networks in Butte and beyond, as well as reconstructed creeks flowing into naturalized wetlands and parks, and playgrounds providing ample community gathering spaces. The land on which all this will be built is a designated Superfund site.

A town built on a mineral-rich hill in central Montana, Butte was once the largest metropolis between Chicago and San Francisco and the largest global producer of copper at the turn of the 20th century. Multistory brick buildings, elegant mansions, vintage Victorian homes, boarding houses and hotels, and miner's cottages scattered across "the Hill," as



Lemon Avenue streetscape, English Edge clay pavers, installed by Preferred Pavers and Concrete. Photography: Ray Gamma.

When life gives you lemons, celebrate them with a beautiful streetscape

Lemon Avenue in Sarasota is a nod to the region's citrus industry and it's also a vibrant retail district in a resort city.

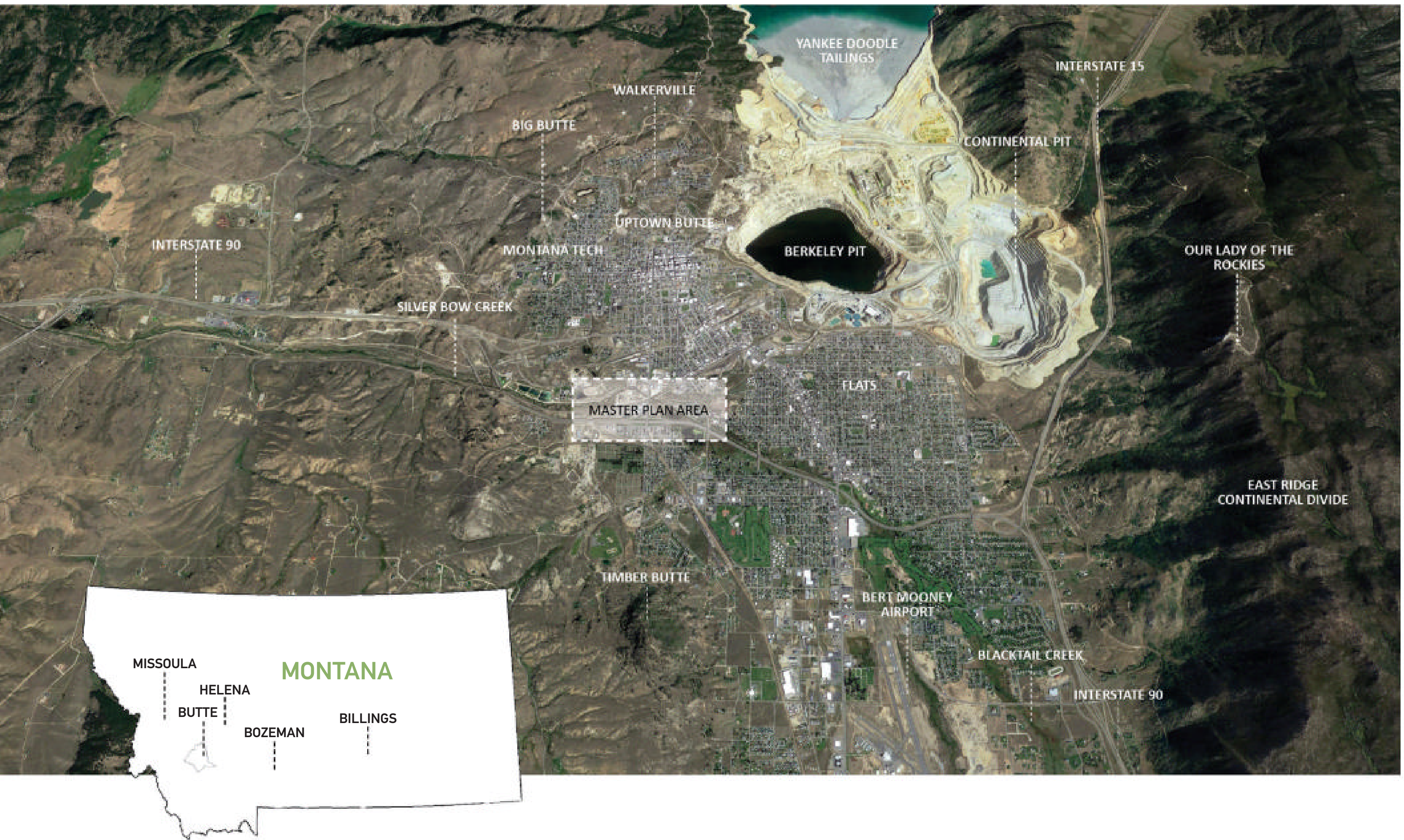
Thanks to forward-thinking city planners and landscape architect firm David W. Johnston Associates, Lemon Avenue is now a more walkable, bikeable, driveable thoroughfare with an aesthetic sense of place.

The award-winning clay paver hardscape includes the namesake lemon, a pineapple at Pineapple Avenue and an ornate compass rose at State Street. All with our English Edge pavers in four fired-in colors that will never fade: Buff, Full Range, Dark Accent and Rose.

Learn more at:
PineHallBrick.com/LAM

PINE HALL BRICK
AUTHENTIC CLAY PAVERS
World's largest supplier of clay pavers.

BUTTE AND SURROUNDING AREAS


YANKEE DOODLE TAILINGS
INTERSTATE 15
WALKERVILLE
BIG BUTTE
CONTINENTAL PIT
UPTOWN BUTTE
INTERSTATE 90
MONTANA TECH
BERKELEY PIT
OUR LADY OF THE ROCKIES
SILVER BOW CREEK
FLATS
MASTER PLAN AREA
EAST RIDGE CONTINENTAL DIVIDE
TIMBER BUTTE
BERT MOONEY AIRPORT
BLACKTAIL CREEK
INTERSTATE 90
MISSOULA
MONTANA
HELENA
BUTTE
BILLINGS
BOZEMAN

it is known locally, once housed an estimated 100,000 people, most of them immigrants who came from all over the world to seek their fortune. The wealth generated by mining and refining earned Butte the title of the “Richest Hill on Earth” and also set it apart from the rest of the ranching West.

Dotted across the urban landscape, too, are a dozen gallows frames whose iron elevators lowered generations of miners thousands of feet underground. Any sense of historic romanticism abruptly ends at the eastern edge of town, where one of the highest earth-filled dams in the country holds back more than 6.5 trillion gallons of toxic sludge from an active open-pit mine, and the infamous Berkeley Pit (a one-mile-long by half-a-mile-wide former open-pit copper mine where you can pay to see toxic waste) sits dormant, a living reminder of Butte’s boom and bust. Miles of chain-link fencing demarcate areas where mining waste and abandoned mines have been capped and revegetated.

Since the late 1800s, mining waste has been dumped in areas around Butte, the heavy metals leaching into the soils, streams, and wetlands near mining operations. And, while contaminated soils have largely been

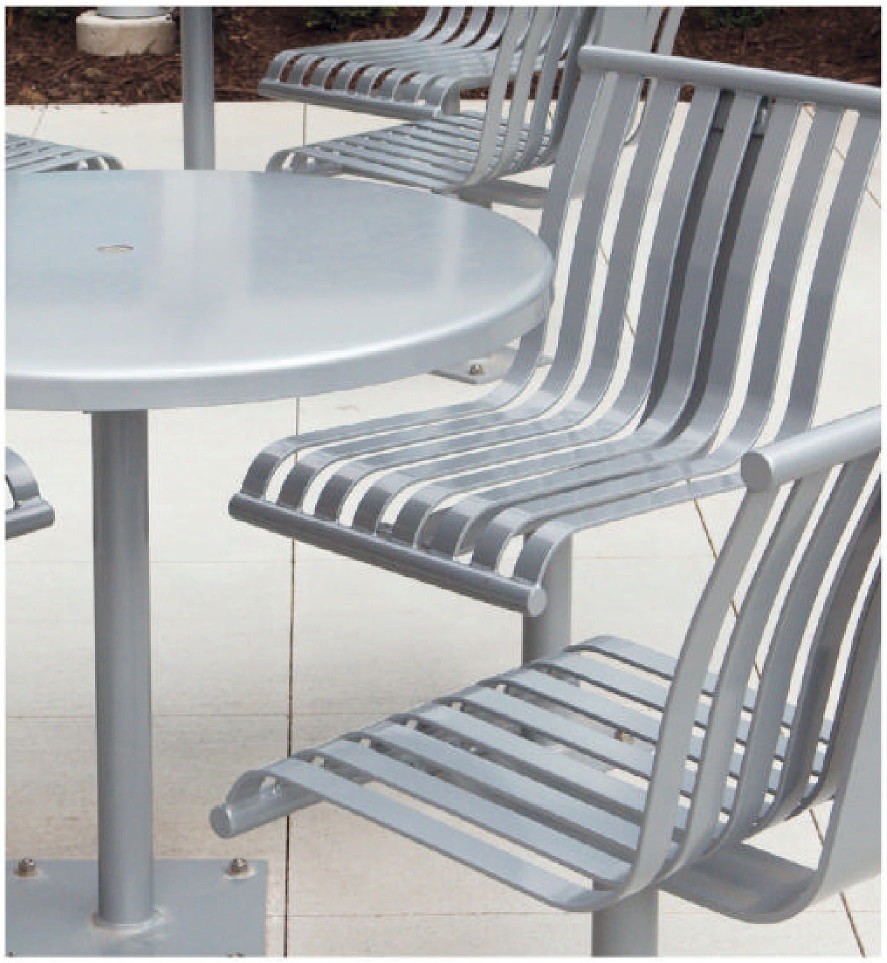
Grove Gulch Master Plan
Butte Reduction Works Master Plan
Buffalo Gulch Primary Basin/Water Feature
Buffalo Gulch Master Plan

TOP
The Silver Bow Creek Conservation Area straddles residential, commercial, and industrial zones in the heart of Butte, Montana.

RIGHT
Public outreach allowed the community to participate in the design process after many years of feeling shut out.

LAND DESIGN, INC.

SITESCAPES



CITY VIEW

TABLES & CHAIRS

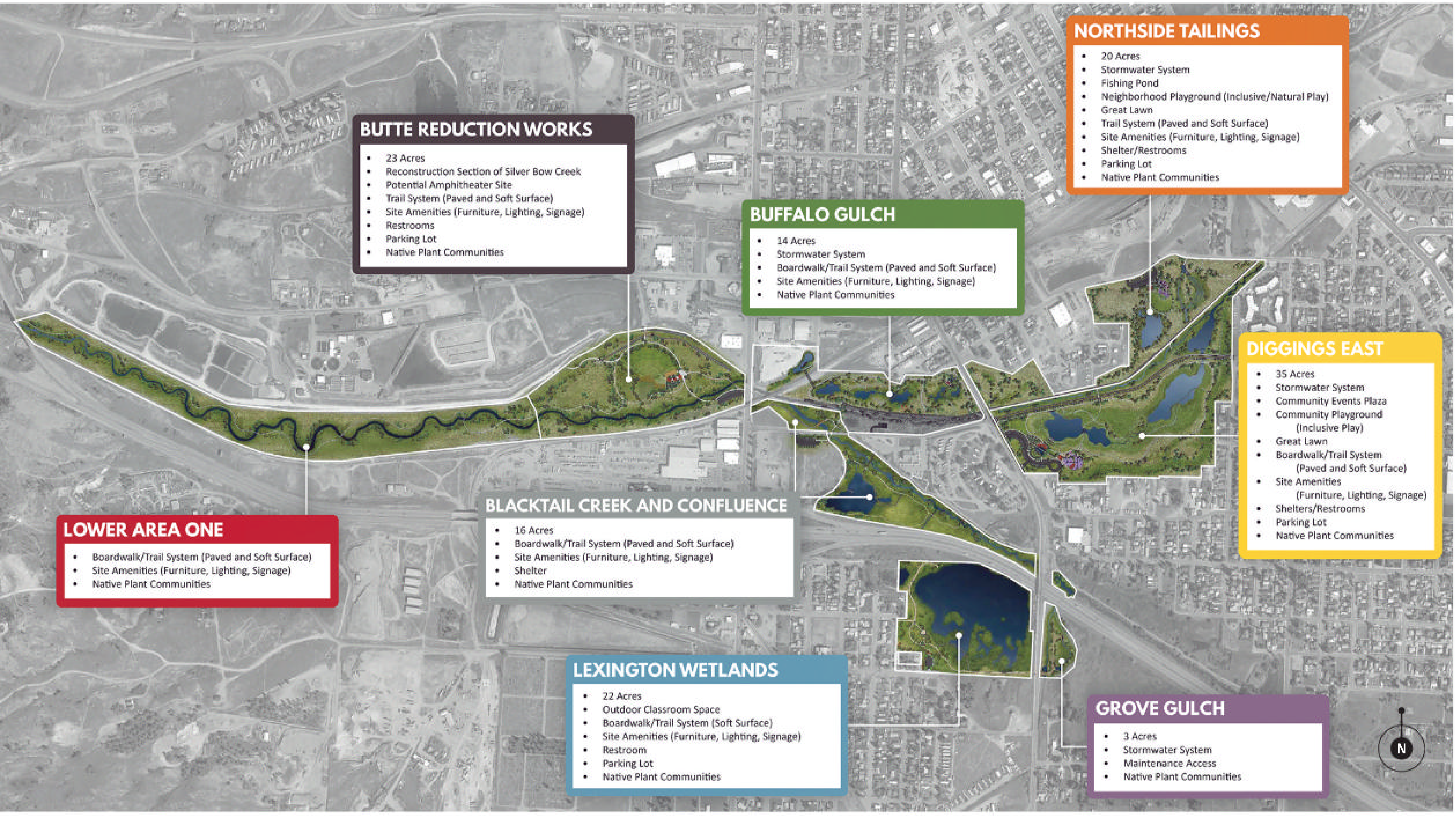
The perfect compliment.

CityView tables and chairs utilize a vertical strap design and are suited for many urban seating solutions. Tables are offered in a number of configurations ranging from independent free standing patio tables to more robust surface mounted carousel styles.

The CityView collection includes park benches, trash receptacles, recycling bins, planters, ash urns, planters, tables and chairs. This collection is heavy duty and well suited in any environment.

SITESCAPES SiteScapesOnline.com 888-331-9464

SILVER BOW CREEK CONSERVATION AREA – END USE MASTER PLAN


NORTHSIDE TAILINGS
20 Acres
Stormwater System
Fishing Pond
Neighborhood Playground (Inclusive/Natural Play)
Great Lawn
Trail System (Paved and Soft Surface)
Site Amenities (Furniture, Lighting, Signage)
Shelter/Restrooms
Parking Lot
Native Plant Communities
BUTTE REDUCTION WORKS
23 Acres
Reconstruction Section of Silver Bow Creek
Potential Amphitheater Site
Trail System (Paved and Soft Surface)
Site Amenities (Furniture, Lighting, Signage)
Restrooms
Parking Lot
Native Plant Communities
BUFFALO GULCH
14 Acres
Stormwater System
Boardwalk/Trail System (Paved and Soft Surface)
Site Amenities (Furniture, Lighting, Signage)
Native Plant Communities
DIGGINGS EAST
35 Acres
Stormwater System
Community Events Plaza
Community Playground (Inclusive Play)
Great Lawn
Boardwalk/Trail System (Paved and Soft Surface)
Site Amenities (Furniture, Lighting, Signage)
Shelters/Restrooms
Parking Lot
Native Plant Communities
BLACKTAIL CREEK AND CONFLUENCE
16 Acres
Boardwalk/Trail System (Paved and Soft Surface)
Site Amenities (Furniture, Lighting, Signage)
Shelter
Native Plant Communities
LOWER AREA ONE
Boardwalk/Trail System (Paved and Soft Surface)
Site Amenities (Furniture, Lighting, Signage)
Native Plant Communities
LEXINGTON WETLANDS
22 Acres
Outdoor Classroom Space
Boardwalk/Trail System (Soft Surface)
Site Amenities (Furniture, Lighting, Signage)
Restroom
Parking Lot
Native Plant Communities
GROVE GULCH
3 Acres
Stormwater System
Maintenance Access
Native Plant Communities
N

ABOVE
The master plan links eight contaminated sites to create an open space corridor that transforms the center of a community from an environmental health hazard to a destination rich in ecological, recreational, and cultural resources.

contained, surface water management continues to be an issue. In 1982, the Environmental Protection Agency (EPA) proposed that Silver Bow Creek, a major watershed that feeds into the Clark Fork of the Columbia River and includes 26 miles of stream and streamside habitat downstream from Butte, be added to the National Priority List. It was listed as a Superfund site in 1983.

Forty years of closed-door legal and financial wrangling followed, isolating the community from a negotiating team that included the company (Atlantic Richfield Company, or ARCO) and federal and state agencies to determine future land-use opportunities and, more important, who would pay for them. In 2006, a Record of Decision was handed down, defining an initial remedy for groundwater management and soil remediation. What wasn't resolved, however, was a method to manage stormwater and surface water flowing into the creek. That's when a citizen-led group called Restore Our Creek Coalition (ROCC) got involved. Their mission, according to ROCC member and retired U.S. Forest Service recreation forester Jocelyn Dodge, is to ensure that the mine tailings and contaminants are removed rather than covered up. "Our civic center and Chamber of Commerce are adjacent to this site. Cleanup is key to our economic future," she says.

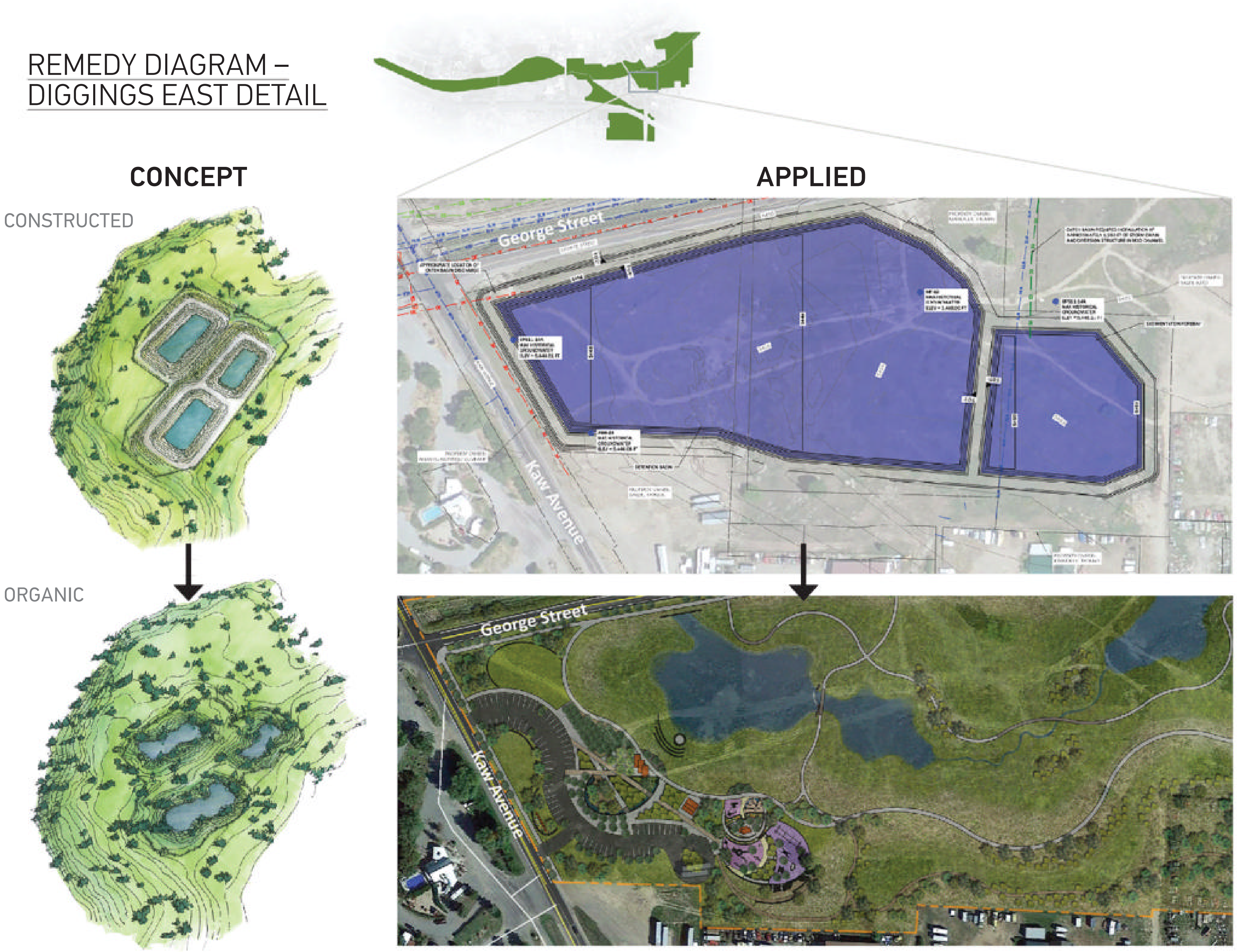
In 2016, Land Design was hired by ARCO to work with representatives from the company, the City-County of Butte-Silver Bow, and the EPA to conduct design workshops and visioning sessions. "When ARCO hired us to find a better solution for the end land use of this volatile creek corridor, I was very hesitant," Robinson admits. "Relationships in this community are tricky. Government agencies dictate what, when, and how cleanup happens, and the company is footing the bill for everything.

LAND DESIGN, INC.

KINGSLEY BATE™

ELEGANT OUTDOOR FURNITURE

© Kingsley Bate. To the trade. T: 703-361-7000 F: 703-361-7001 www.kingsleybate.com [KB1293B]



ABOVE
Early in the process, engineered stormwater ponds promised a method for removing toxic contaminants from runoff. The ponds were redesigned later to bolster recreation and ecological biodiversity.

LAND DESIGN, INC.

The community has been caught in the middle for so long that it's now holding out for what it deserves." Robinson is a native Montanan, and his firm's work runs the gamut from custom residential landscape architecture at the Yellowstone Club to public parks and other stormwater remediation work. Thoughtful and low-key, he prefers to stay out of the limelight and focus his attention instead on solving problems.

"The community was ready to fight because they've been fighting for 35 years," Robinson explains. "Ultimately, they went from pissed off to applause. No one from the government or the company had ever asked them to think beyond general cleanup or ask them what they wanted." And in the end, he says, it turns out that the vision proposed by ROCC and the company were relatively compatible. "Every town in the West is striving for a community greenway. ROCC's initial effort led to the generation of an end land-use solution that I would argue offers more of a community benefit than just a creek running through a series of tailing sites."

Josh Bryson is the local liability manager for ARCO. An engineer by training, he came to Butte to work for Pioneer Technical Services, one of two engineering firms hired by the company to find solutions for managing (and ultimately remediating) the stormwater and surface water that flow into the creek corridor. Butte averages about 13 inches of precipitation annually, and rain, when it comes, moves quickly down the mineral-rich "hill" and surrounding mountainous landscape, washing heavy metals such as lead, cadmium, zinc, and copper into Silver Bow Creek. Meeting Montana Department of Environmental Quality surface water standards during stormwater events has proved difficult simply because of Butte's fluctuating high desert climate conditions, so the EPA proposed, as part of a 2020 revision to the Record of Decision, to waive the

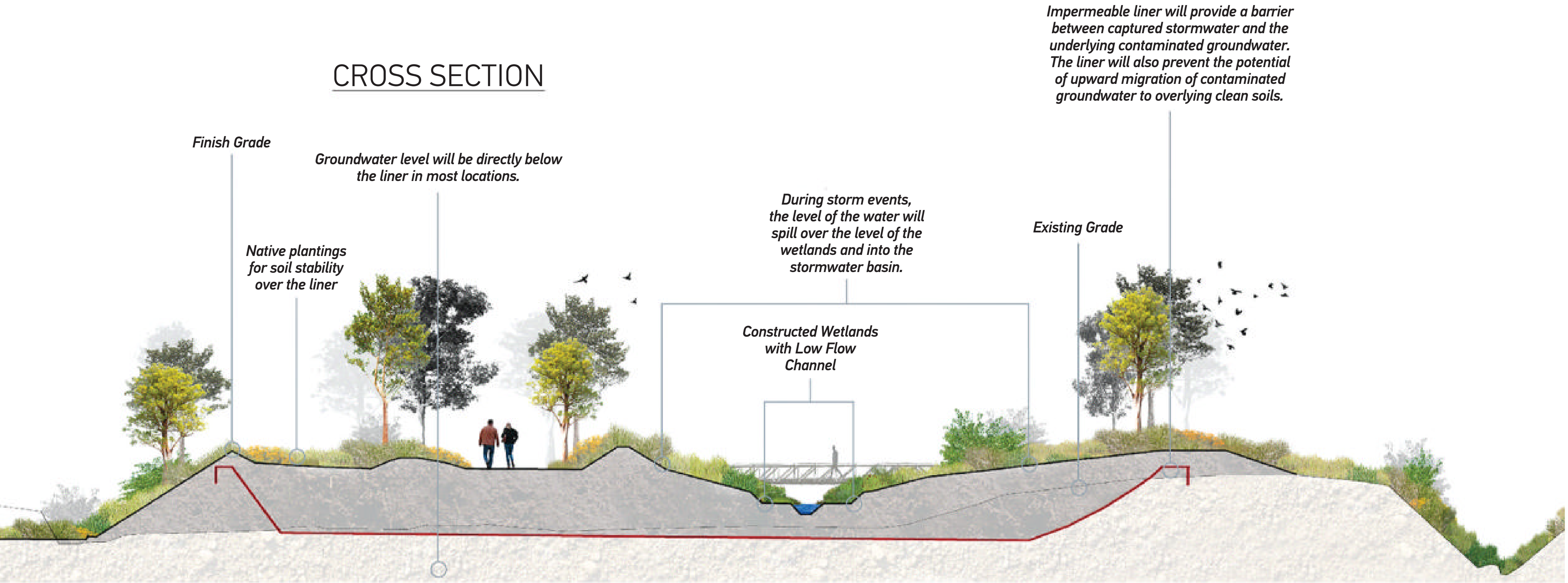
TEAK WAREHOUSE

Impress your clients
and their neighbors

Teak Warehouse outdoor furniture is fully assembled and ready to ship with white glove service nationwide. Enhance your next project with the beauty of teak at a wholesale price.

TEAKWAREHOUSE.COM

TW


CROSS SECTION
Impermeable liner will provide a barrier between captured stormwater and the underlying contaminated groundwater. The liner will also prevent the potential of upward migration of contaminated groundwater to overlying clean soils.
Finish Grade
Groundwater level will be directly below the liner in most locations.
During storm events, the level of the water will spill over the level of the wetlands and into the stormwater basin.
Existing Grade
Native plantings for soil stability over the liner
Constructed Wetlands with Low Flow Channel

ABOVE
Following the excavation and disposal of contaminated mine waste and soils, sites will be backfilled, graded, and covered with a liner to prevent contamination.

LAND DESIGN, INC.

state's standards and replace them with more lenient federal standards. This is a move that EPA Remedial Project Manager Nikia Greene says many other states are gravitating toward because it analyzes dissolved rather than total recoverable metals. For many in the community, however, it was a loophole for avoiding cleanup, says Butte native Julia Crain, the assistant director of reclamation and environmental services for the City-County of Butte-Silver Bow. "Thirty-five years of Superfund followed by a Record of Decision in 2006, and then another decade of on-and-off negotiations. When you see a lack of progress, you have to ask yourself why. That's when the community started to assume they weren't being told the truth."

In 2020, the Federal District Court of Montana approved the Consent Decree, a 1,400-page document with the ultimate goal of delisting Butte as a Superfund site by 2024. The Consent Decree's remedy, Robinson suggests, is standard and what the community expects. "Grade it, seed it, and fence it off with six-foot fences."

What they will get instead is a conservation corridor that spans eight sites, ranging from three to 35 acres, that are divided into two classifications: those that are in need of remediation to remove contaminated mine waste, tailings, or soils, and those that have previously been reclaimed or have had no impacts from historic mining activities. Because the sites span an area that makes up the lowest elevational points in the city, some regions within its boundaries remain inundated with water year-round, making drainage a challenge.

Hydric soils and hydrophytic vegetation form the baseline for much of the area, which, despite the issues of contaminated soils and water, is home to a wide variety of birds, mammals, reptiles, and fish. As part of the existing conditions baseline, vegetation was analyzed to determine a percentage of vegetative cover by type, which can be used to show changes on remediated sites as landscape improvements, such as the addition of woody plants, begin to sequester and remove toxic contaminants such as arsenic, lead, iron, and mercury.

A series of large gravity-fed stormwater basins located at the bottom of the hill allows particles to settle out of the water column, and wetland plants—through a process of phytoremediation—further remove or break down harmful chemicals found in the soil, sediment, or surface water. "It's a solution," Bryson says, "that doesn't rely on energy-consuming technology or the modernization of a water-treatment plant. [The basins are] simple and effective and they fit into a larger conservation corridor concept. It can be a long-term community amenity versus a water treatment plant that no one wants to look at."

Once mine waste and soils are removed, each site will be backfilled, graded, and covered with an impermeable rubber liner located at a ground elevation just below the stormwater basins and channels to prevent infiltration of stormwater to the underlying, contaminated groundwater aquifer. New soil will be spread on top of the liner to replicate a natural landscape marked with rolling berms and contoured slopes.

SALSBURY
INDUSTRIES
People Committed to Quality Since 1936®

MAILBOXES

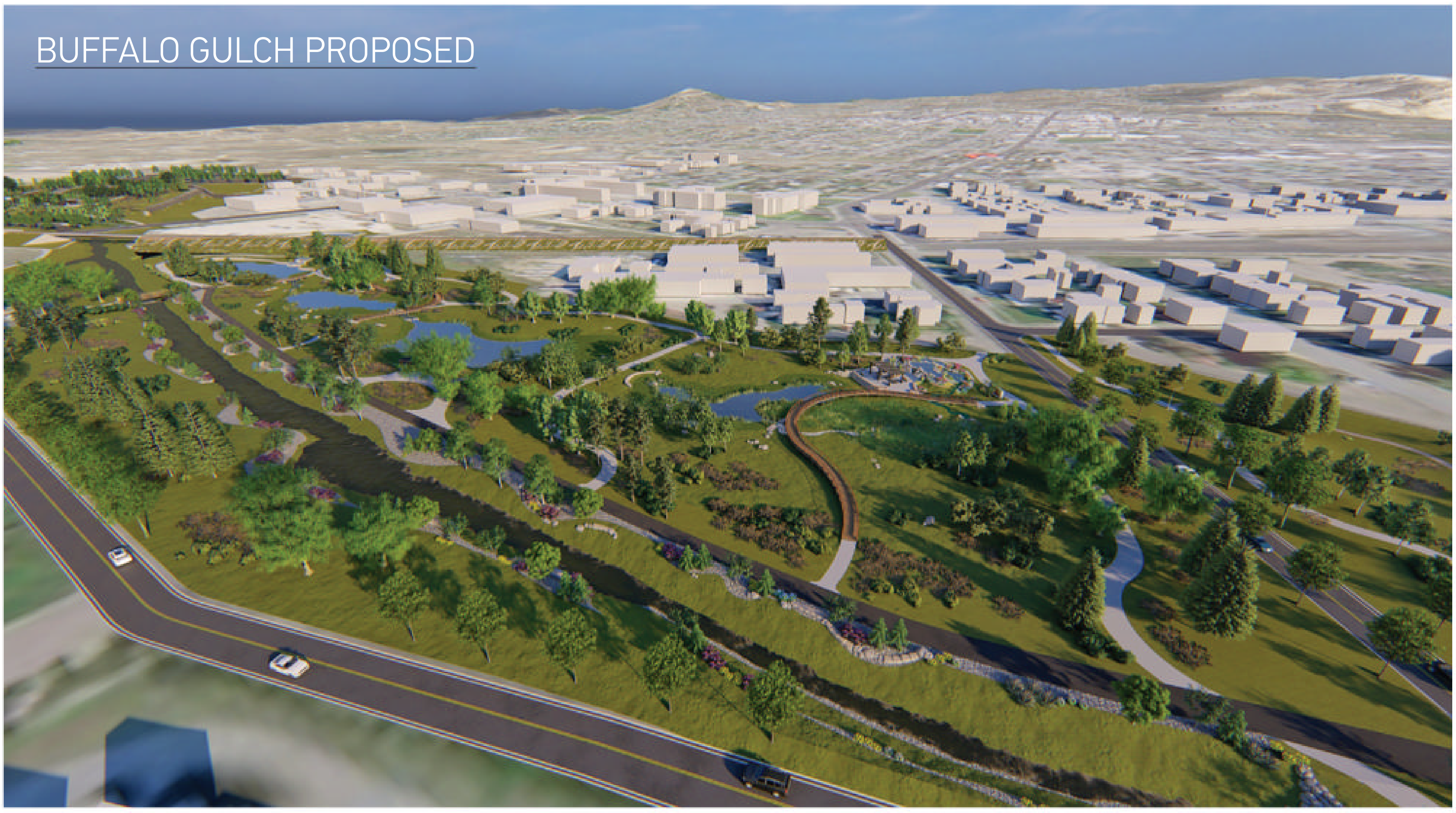
Commercial • Residential

- Design Assistance
- Large Inventory
- Volume Discounts
- Huge Selection
- Fast Shipping
- Call Today

mailboxes.com
1-800-MAILBOX

Buy Mailboxes Factory Direct! 1-800-624-5269

Salsbury Industries - 18300 Central Ave, Carson, CA 90746-4008



LAND DESIGN, INC.

ABOVE
Recirculating stormwater ponds at either end of this 14-acre park sustain a network of rich wetland habitats. Extensive boardwalks provide a direct connection to nature from surrounding neighborhoods.

Regionally appropriate plant communities will establish the greenway and park area within a larger context, expanding it from Butte's arid environment to a palette representative of western Montana. "This is not just a green space for green space reasons," Robinson says. "There's so much science behind this as part of the remediation efforts, and so much of it is counterintuitive. We're trying to create an ecosystem that acts like a 1.5-foot to 25-foot-deep liner isn't there!"

Explaining ARCO's commitment to the community has been the most difficult part of Crain's job, she says, as both a government representative and a community member with two small children. She describes a meeting where she verbalized for everyone the need to acknowledge community health and welfare. "If there are going to be chain-link fences around this project, we have to start over. Managing stormwater carries its share of health risks, but it's equally risky to tell this community that they can't experience their place in the world because it's too dangerous. If we do it the right way, we won't have to build a fence."

Throughout the planning process, generational issues centered around trust, tried-and-true solutions, health and welfare, and new technology have predominated. Older generations want green lawns and tree canopies, while younger users want access to bike trails and innovative playgrounds for their kids, a fact that isn't lost on Butte leaders and newcomers to the city who see the potential for a positive economic impact in Montana's burgeoning recreation industry. Not surprising, too, is the community's desire for accessible and clean water features and verdant greenery. "Glittering leaves, filtered light, abundant greenery, and clean water are things we want because we've never been able to have them," Crain says.

While his firm was brought in to lead the project, Robinson says that not everyone understood how a landscape architect could contribute more than basic landscape services. "When we started this process, our role relative to the engineering firms that were already on board was negligible," he explains. "Initially, we were relegated to tree planting, but over time our role evolved." It's not just about creating a pretty green space, he says. "It's about transforming the center of a community—one that has been scarred by more than a century of mining—to one of ecological rebirth and immense social and educational value. The responsibilities are shared now, and we're the ones leading the search for a solution. We know enough to talk about the big picture."

HORSIN’ AROUND

Amira Playground
Tomball, TX
Collaboration: Kudela and Weinheimer Landscape Architects
Developer: Johnson Development Corp.

Earthscape is your single source for designing and building custom wood play structures. We collaborate with you to bring the impossible to life and create unforgettable playscapes.

earthscape

info@earthscapeplay.com | 1.877.269.2972

earthscapeplay.com

ABOVE
At the 23-acre Butte Reduction Works park, a stark and barren landscape will be transformed into a lively community gathering place.

LAND DESIGN, INC.

Achieving this vision will begin this year, though the exact time frame will be dictated by material availability and skilled labor. Getting the right construction management team on board is the first step, followed by the procurement of clean planting soil and plants in mass quantity. The cost for completing the project plus operating and managing it for an additional 50 years has been estimated at $150 million, to be funded by ARCO. According to Bryson, that number doesn't include the construction costs for remedying the existing conditions—also funded by ARCO—a monstrous task that includes the removal of approximately 850,000 cubic yards of waste materials including historic mine waste, hydrocarbon-contaminated soils, and municipal trash and debris from all the spaces included within the 176-acre site. To date, $1.8 billion has already been spent on the Upper Clark Fork River Basin Superfund remediation effort.

In response to the repeated community question, "How do we know we're getting a good deal?" Robinson submitted the plan to the Sustainable SITES Initiative for precertification, something Green Business Certification had never before considered for a Superfund site. Building the SITES application around the project's larger intent established design parameters and principles that could then be transferred to individual site certification as each of the plans are completed. "We used it to prove to the community that our intent to provide them with the best possible outcome was real," he explains, because the standards provide the highest level of evidence to create a project that has been judged to be exceptional.

Propelled by the Consent Decree and a SITES Gold precertification, the Silver Bow Creek Conservation Area Master Plan is providing an opportunity for the community of Butte to move beyond its status as a Superfund site. "We created something out of nothing," Robinson notes, "which is exactly what immigrants to Butte did over a hundred years ago. What this community needs to heal is a place they can relate to, with a story that compels them to believe in the future." ●

SARAH CHASE SHAW IS A LANDSCAPE ARCHITECT AND FREELANCE WRITER LIVING IN BASALT, COLORADO.

40 YEARS 1983 - 2023

permaloc®
SUSTAINABLE EDGING SOLUTIONS

ProSlide™

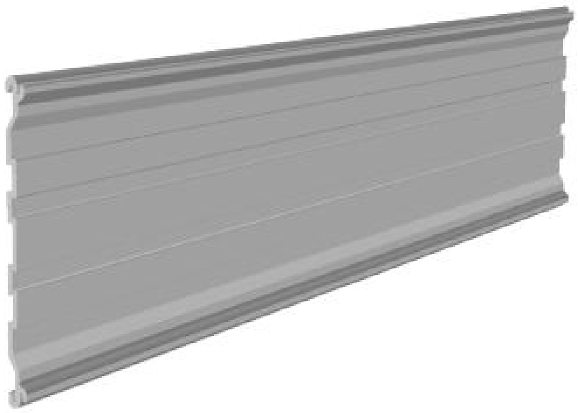
Aluminum Sliding Landscape Edging

ProSlide™ is a complete series of professional grade aluminum landscape edgings designed to function in professional landscapes. ProSlide sections telescope together utilizing channels along its top and bottom edges, providing for a fast and simple installation process, and ensuring long-term performance.

- ProSlide's symmetrical sliding connection system is versitile, easy to install and elminates the need for stakes at the connection.

- ProSlide is made of a durable aluminum alloy, an ideal material for the landscape. Aluminum is lightweight, sustainable, and strong enough to meet the demands placed upon a professional landscape.

- ProSlide is available in multiple heights, thicknesses, and finishes to provide you with maximum design flexiblity.

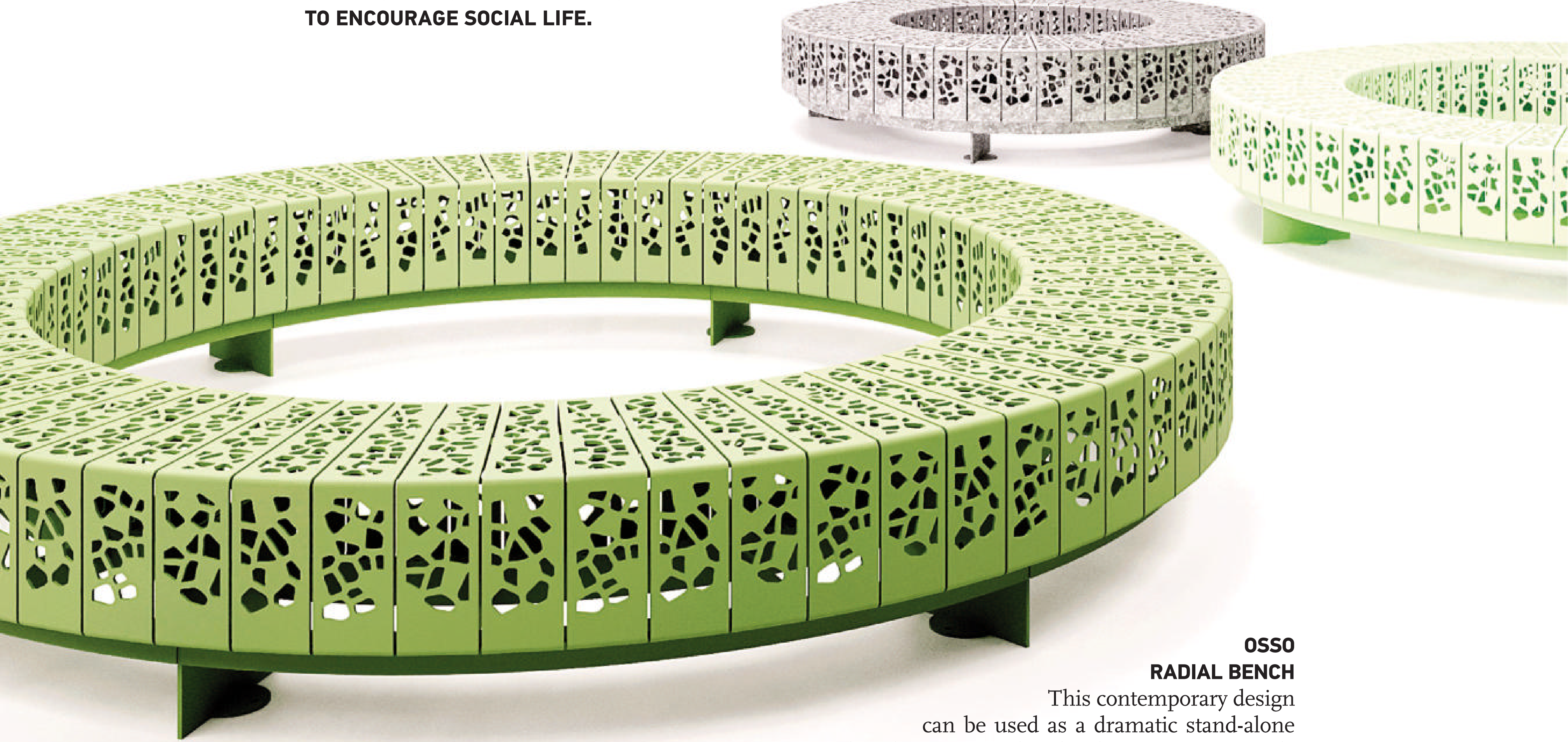


permaloc®
SUSTAINABLE EDGING SOLUTIONS
800.356.9660
www.permaloc.com

EDITED BY KRISTEN MASTROIANNI

PUBLIC RELATIONS

SEATING AND OTHER ELEMENTS TO ENCOURAGE SOCIAL LIFE.



COURTESY FACTORY FURNITURE

OSSO RADIAL BENCH

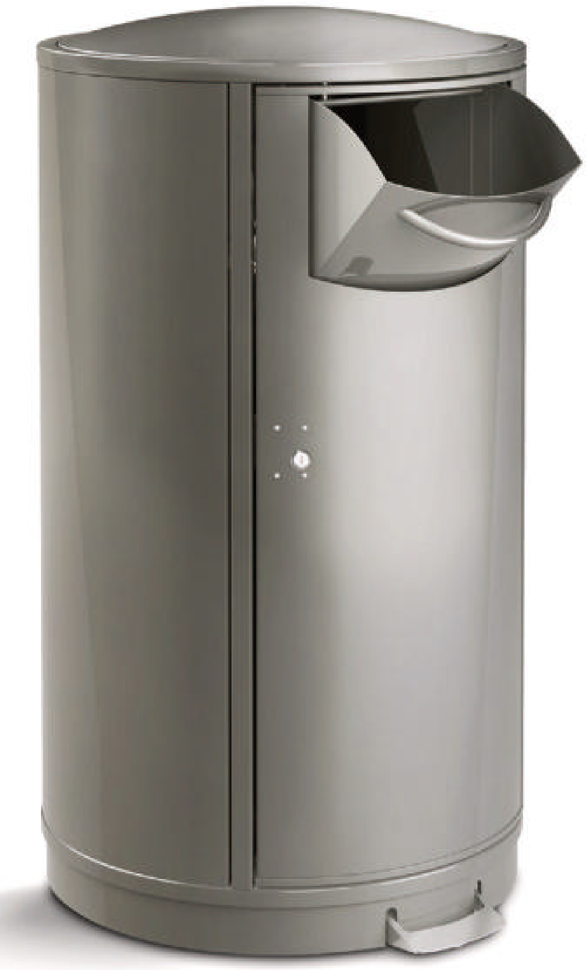
This contemporary design can be used as a dramatic stand-alone bench or arranged with other pieces to provide more space for seating; each element can be linked to create different shapes and lengths. The bench's open structure keeps personal items in plain sight, making it ideal for security-sensitive areas. Its powder-coated finish allows for a wide variety of color options and increased durability. ●

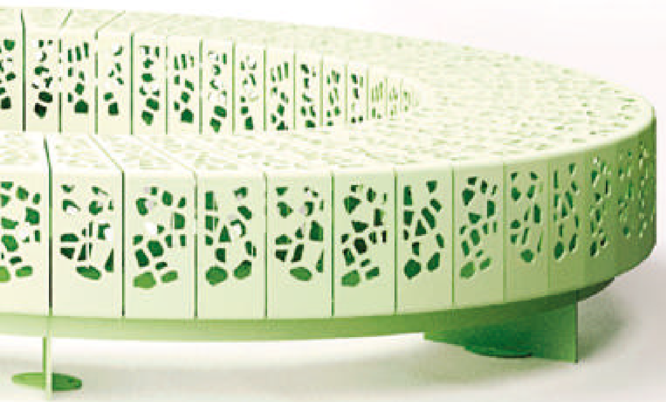
FOR MORE INFORMATION, VISIT **WWW.FACTORYFURNITURE.CO.UK.**

DRAWER REN

The Drawer Ren litter receptacle, part of the Stella of Sunne collection, helps maintain shared spaces with a fully enclosed design that keeps up to 36 gallons of waste in and unwanted critters out. The bin can be easily accessed via a drawer handle or stainless steel foot pedal, and it's available in several standard colors as well as metallic finishes. ●

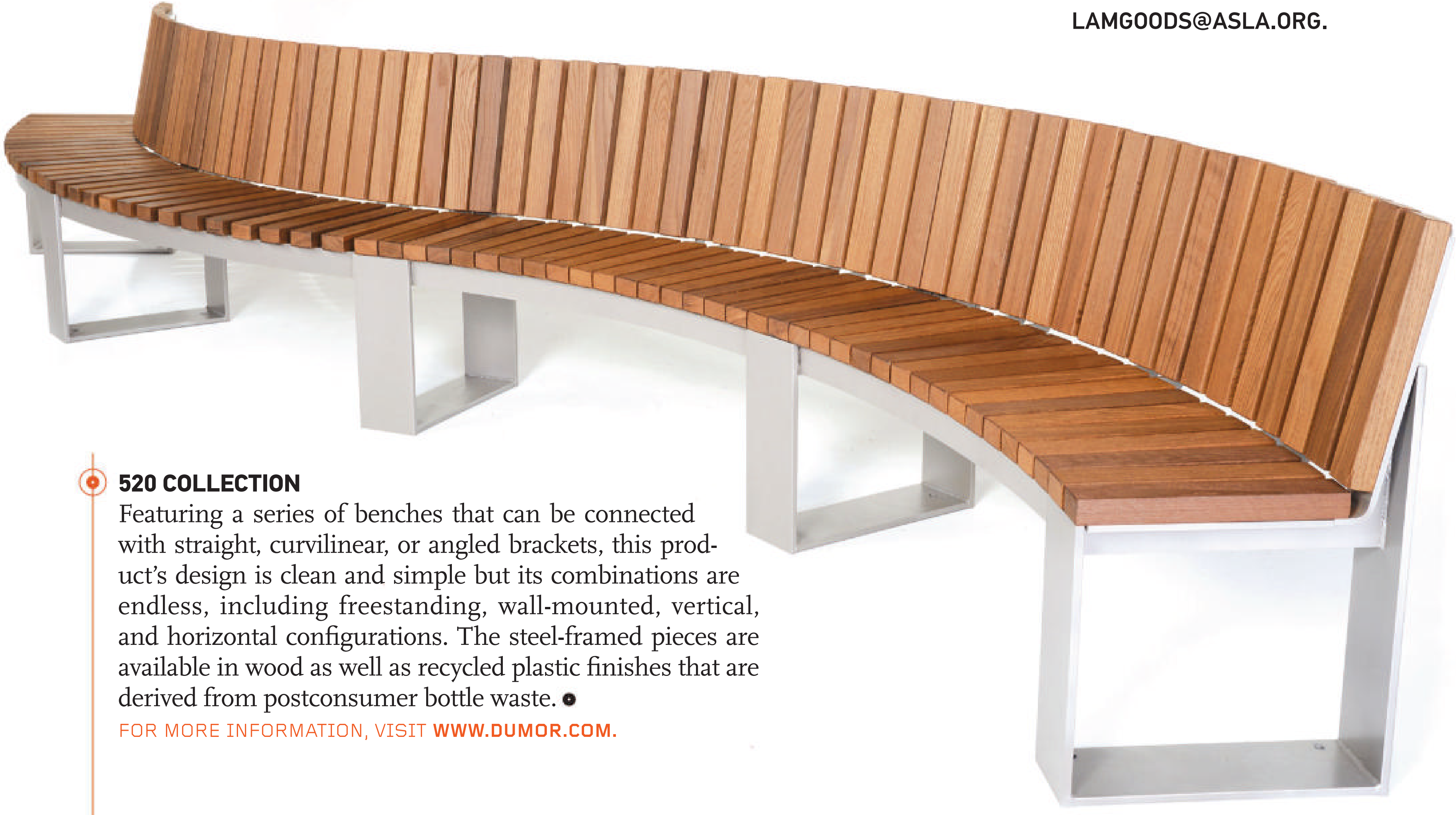
FOR MORE INFORMATION, VISIT **WWW.VICTORSTANLEY.COM.**





SUBMIT

DO YOU HAVE A NEW PRODUCT THAT YOU WOULD LIKE TO SEE IN GOODS? SUBMIT YOUR MATERIALS TO **LAMGOODS@ASLA.ORG.**

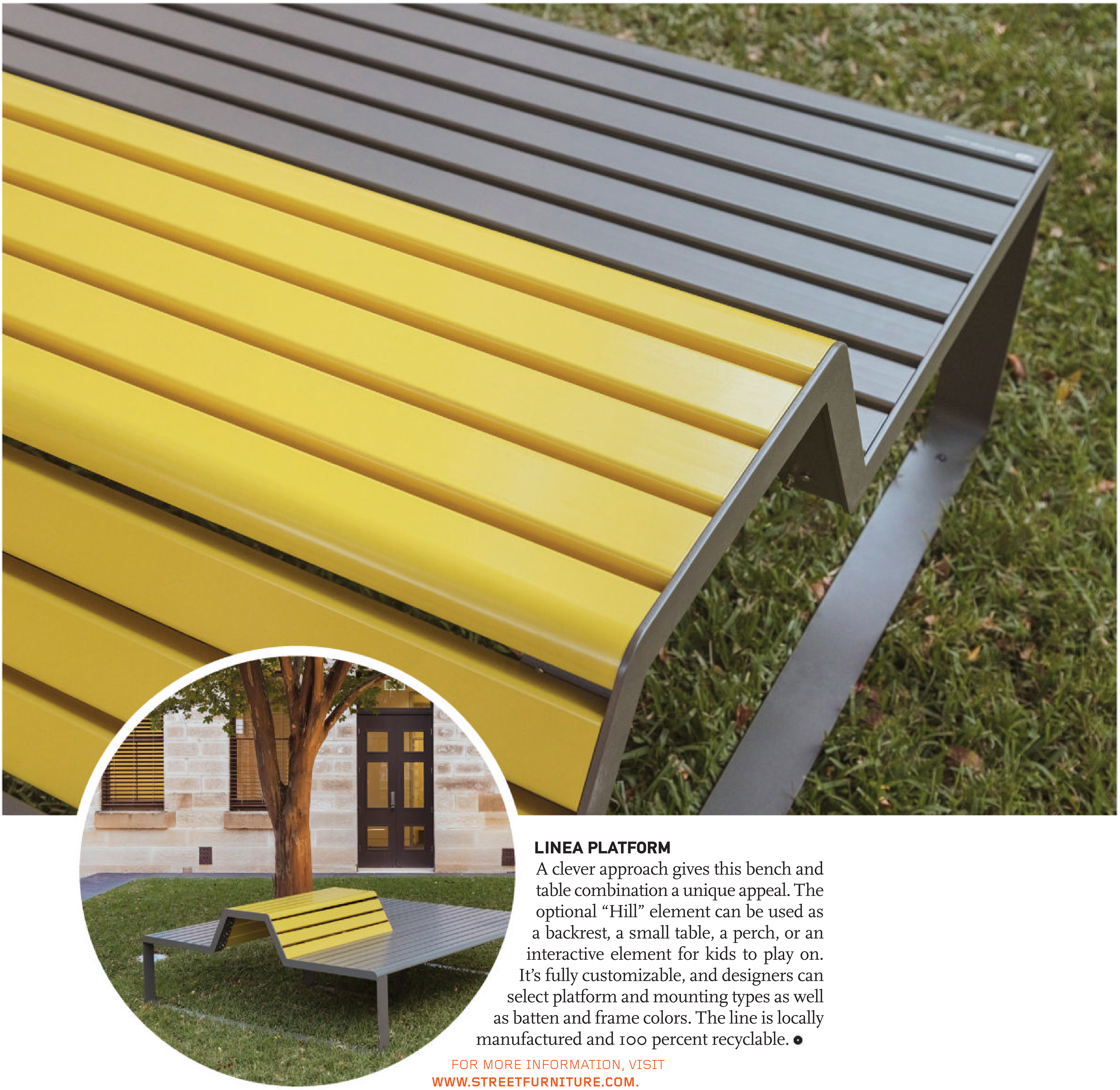


520 COLLECTION

Featuring a series of benches that can be connected with straight, curvilinear, or angled brackets, this product's design is clean and simple but its combinations are endless, including freestanding, wall-mounted, vertical, and horizontal configurations. The steel-framed pieces are available in wood as well as recycled plastic finishes that are derived from postconsumer bottle waste. ●

FOR MORE INFORMATION, VISIT **WWW.DUMOR.COM.**

COURTESY VICTOR STANLEY, TOP; HARTMAN BENZON MEDIA, BOTTOM



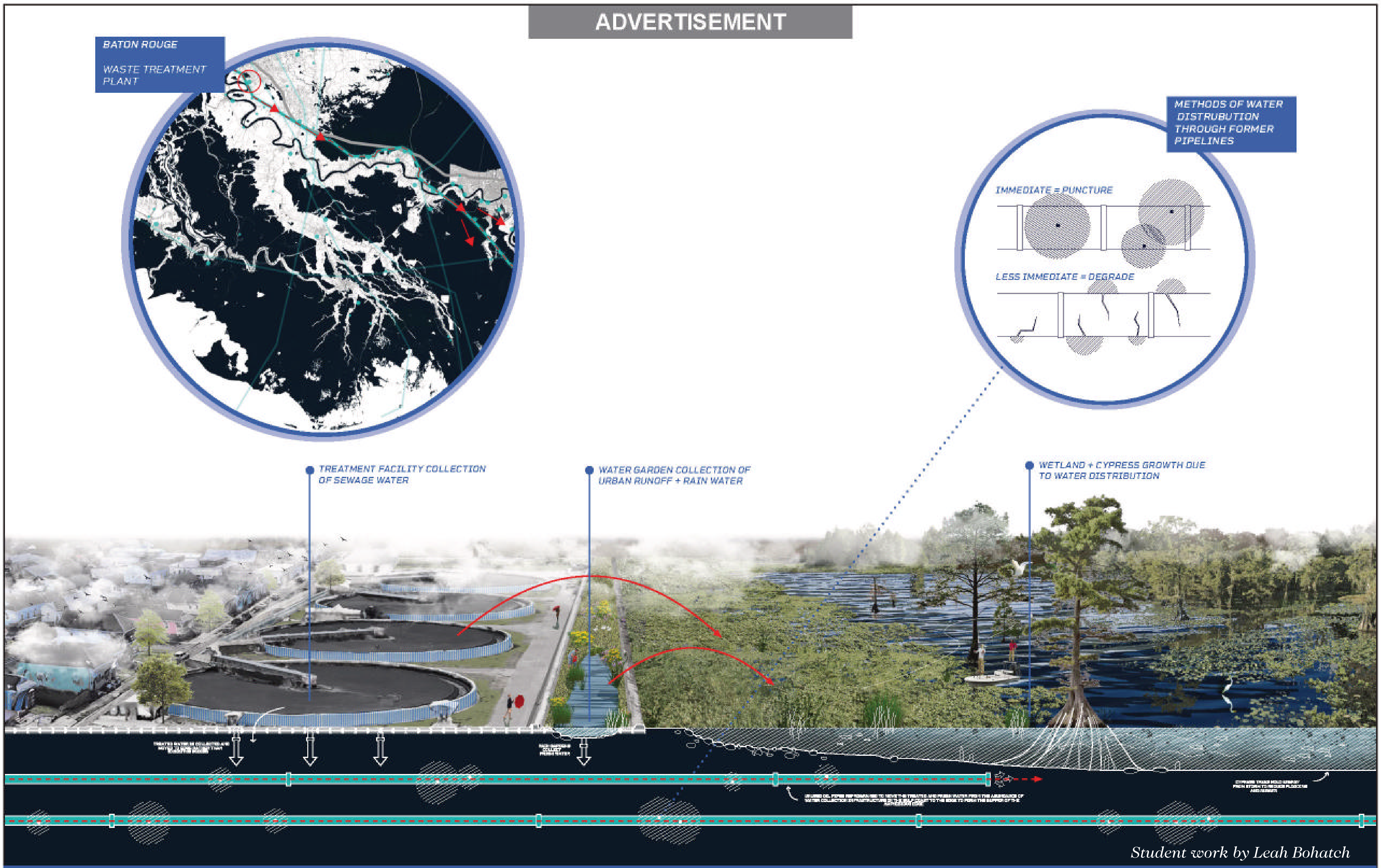
COURTESY STREET FURNITURE AUSTRALIA

LINEA PLATFORM

A clever approach gives this bench and table combination a unique appeal. The optional “Hill” element can be used as a backrest, a small table, a perch, or an interactive element for kids to play on. It’s fully customizable, and designers can select platform and mounting types as well as batten and frame colors. The line is locally manufactured and 100 percent recyclable.

FOR MORE INFORMATION, VISIT **WWW.STREETFURNITURE.COM.**

ADVERTISEMENT


BATON ROUGE
WASTE TREATMENT PLANT
METHODS OF WATER DISTRUBUTION THROUGH FORMER PIPELINES
IMMEDIATE = PUNCTURE
LESS IMMEDIATE = DEGRADE
TREATMENT FACILITY COLLECTION OF SEWAGE WATER
WATER GARDEN COLLECTION OF URBAN RUNOFF + RAIN WATER
WETLAND + CYPRESS GROWTH DUE TO WATER DISTRIBUTION

Student work by Leah Bohatch

Tulane University innovates landscape architecture and engineering education with strong emphases in ecology, evolutionary biology, and hydrologic modeling, as well as water cycle and environmental modeling.

Tulane
School of
Architecture

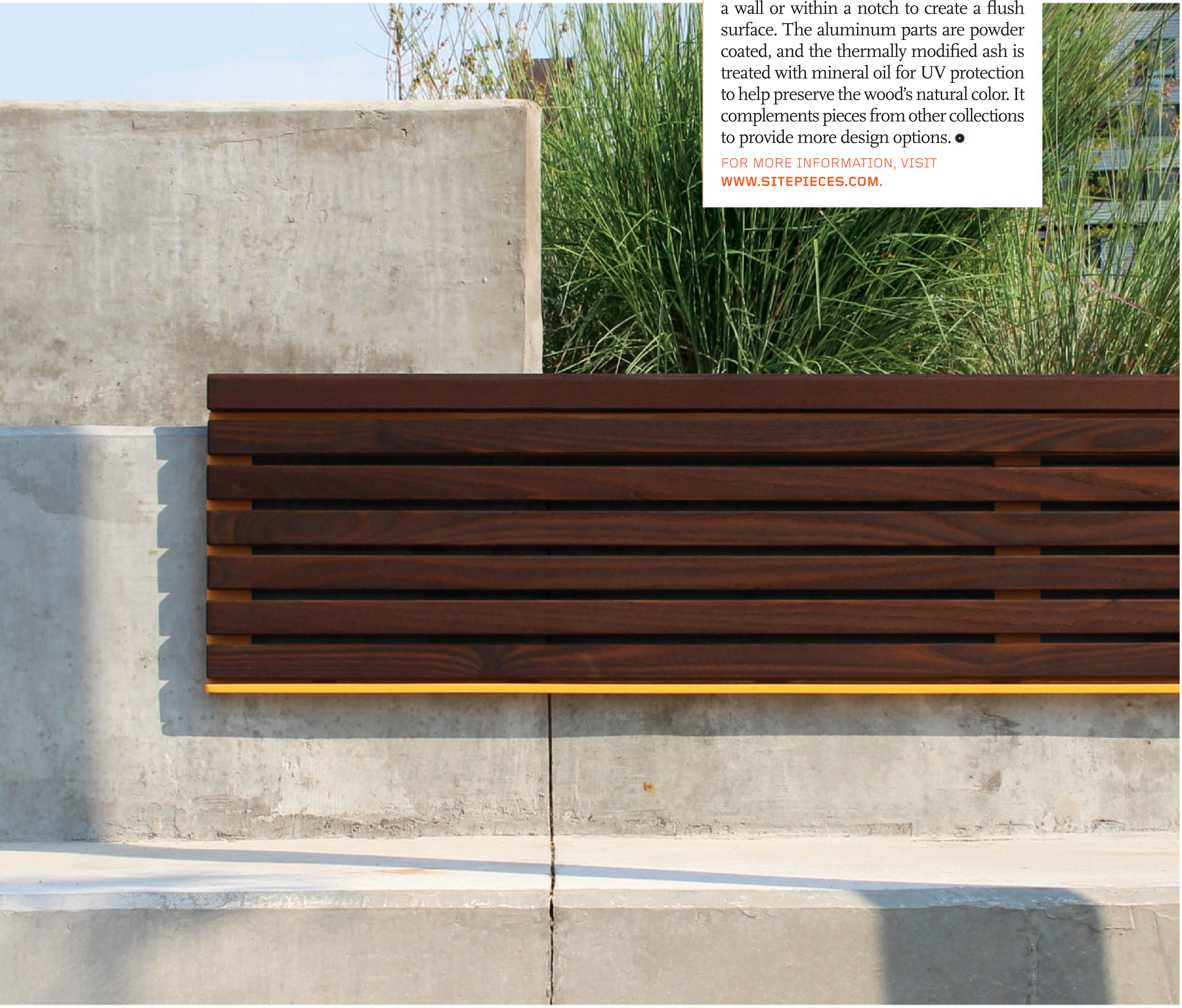
Scenarios to address river, coastal, and climate crises were recently developed by undergraduate and graduate students as part of the Gulf Research Studio at **Tulane School of Architecture** in New Orleans, an interdisciplinary studio funded by the **National Academies of Sciences, Engineering and Medicine** (NASEM) through a pilot program for the Academies' **Gulf Research Program**.

Led by internationally awarded Tulane Professor Margarita Jover along with Visiting Assistant Professor Liz Camuti, the multi-year studio is organized as a road map for building on Louisiana's Climate Action Plan for the state and to catalyze partnerships and support for implementation.

Central to the studio's research is collaboration with Tulane's School of Science and Engineering, especially faculty in water engineering and ecology and evolutionary biology. In addition to the studio, the two schools are also working together through the School of Science and Engineering's Gulf Research Scholars Program, also funded by the NASEM.

More recently, the collaboration has led to plans for a **new graduate-level degree program merging landscape architecture and engineering**. Jover serves as Director of the program, which will also incorporate courses on urbanism, law, data visualization, and sciences – all with the goal of training future professionals to investigate and manage the conflicts of urbanization with natural systems under the threats of climate change, from the human scale to the territory scale, in coastal areas in particular.

Learn more and start your journey at Tulane!



MONOLINE TOPPER

The Monoline Topper is a customizable seat that can be designed to match specific dimensions and mounted on top of a wall or within a notch to create a flush surface. The aluminum parts are powder coated, and the thermally modified ash is treated with mineral oil for UV protection to help preserve the wood's natural color. It complements pieces from other collections to provide more design options. ●

FOR MORE INFORMATION, VISIT **WWW.SITEPIECES.COM.**

COURTESY SITE PIECES

Wayne : : Tyler

Concrete Lighted Bollards

Built to perform, protect and withstand the harshest of environments.

RESHAPING THE IDEA OF LANDSCAPE DESIGN

The Belden Brick Company is excited to bring you the evolution of clay pavers with our unmistakable hardscape products. Discover our many colors, sizes, textures, and shapes at **www.beldenbrick.com**

COMMERCIAL | RESIDENTIAL | PAVING

NETAPP WICHITA: Permeable Series Pavers in Carbon Black, Landmark, and Lighthouse
www.beldenbrick.com | 330-456-0031 | *The Standard of Comparison Since 1885*

BELDEN
CLAY PAVERS

EXPERIENCE MODERN FIRE | BOL CORTEN
PALOFORM
888.823.8883 | sales@paloform.com | paloform.com

FEATURES

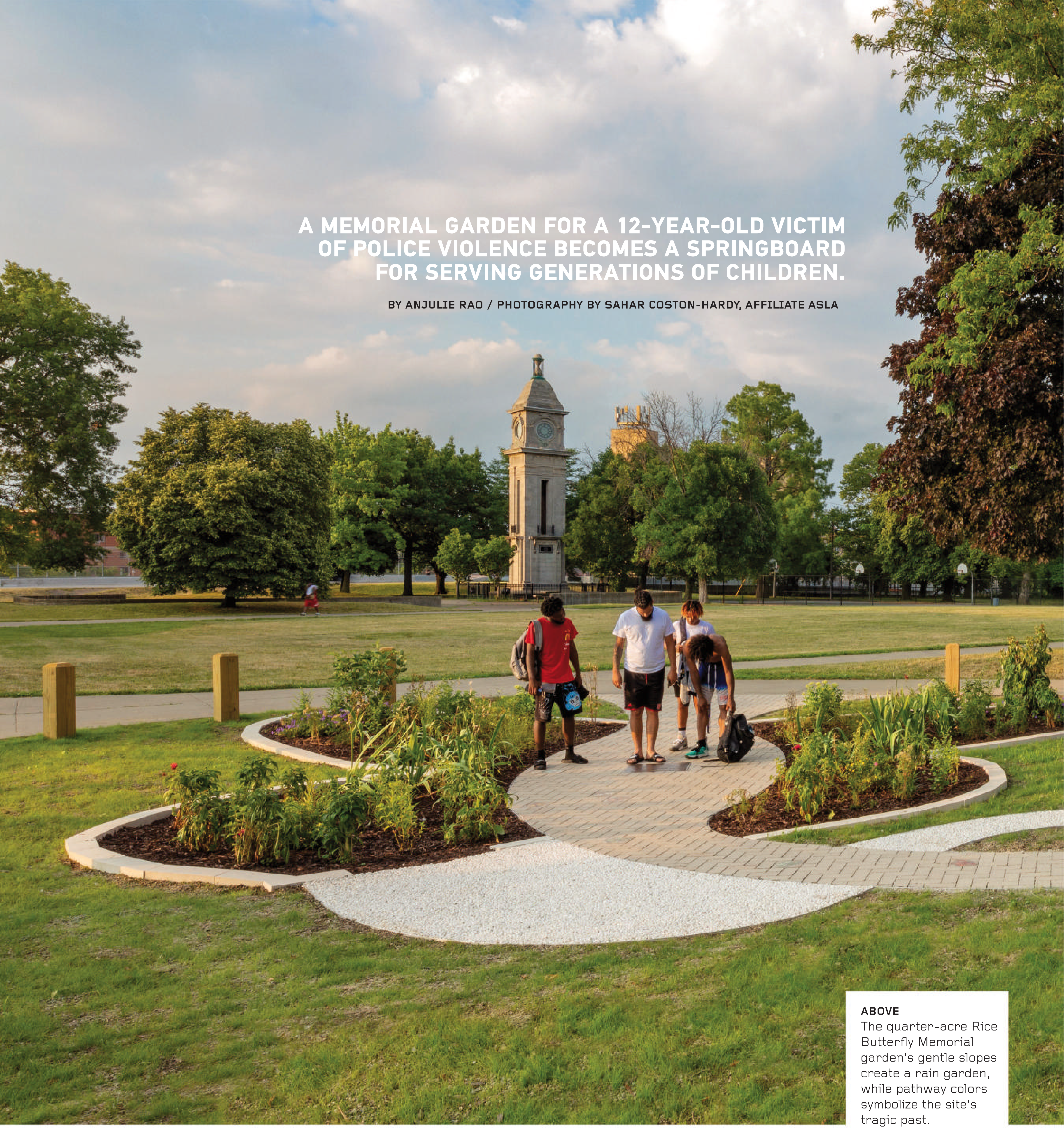
KEVIN BUDDIE

CLEVELAND

The first chapter of the Rice Butterfly Memorial undergoes change, page 76.

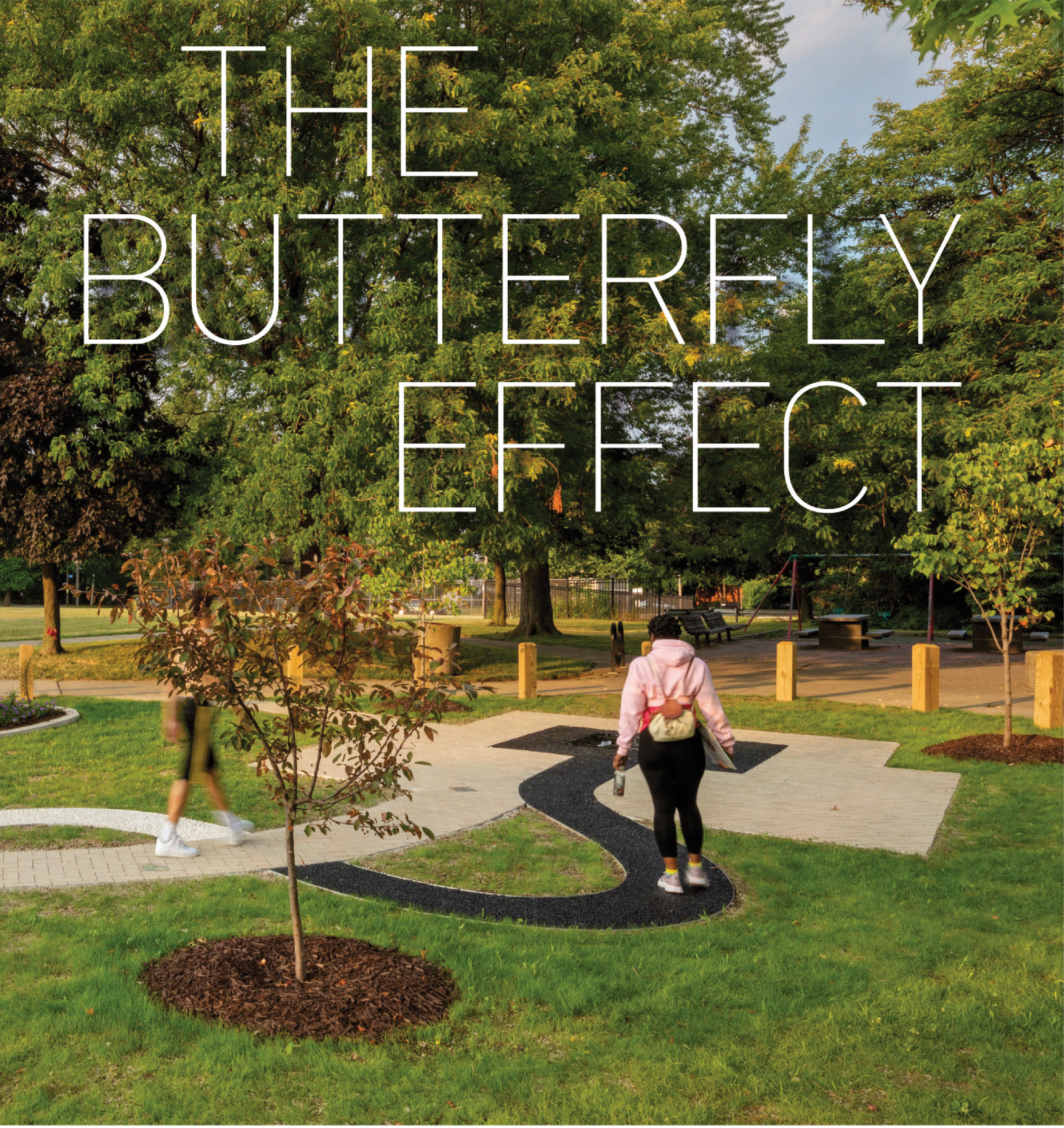
A MEMORIAL GARDEN FOR A 12-YEAR-OLD VICTIM OF POLICE VIOLENCE BECOMES A SPRINGBOARD FOR SERVING GENERATIONS OF CHILDREN.

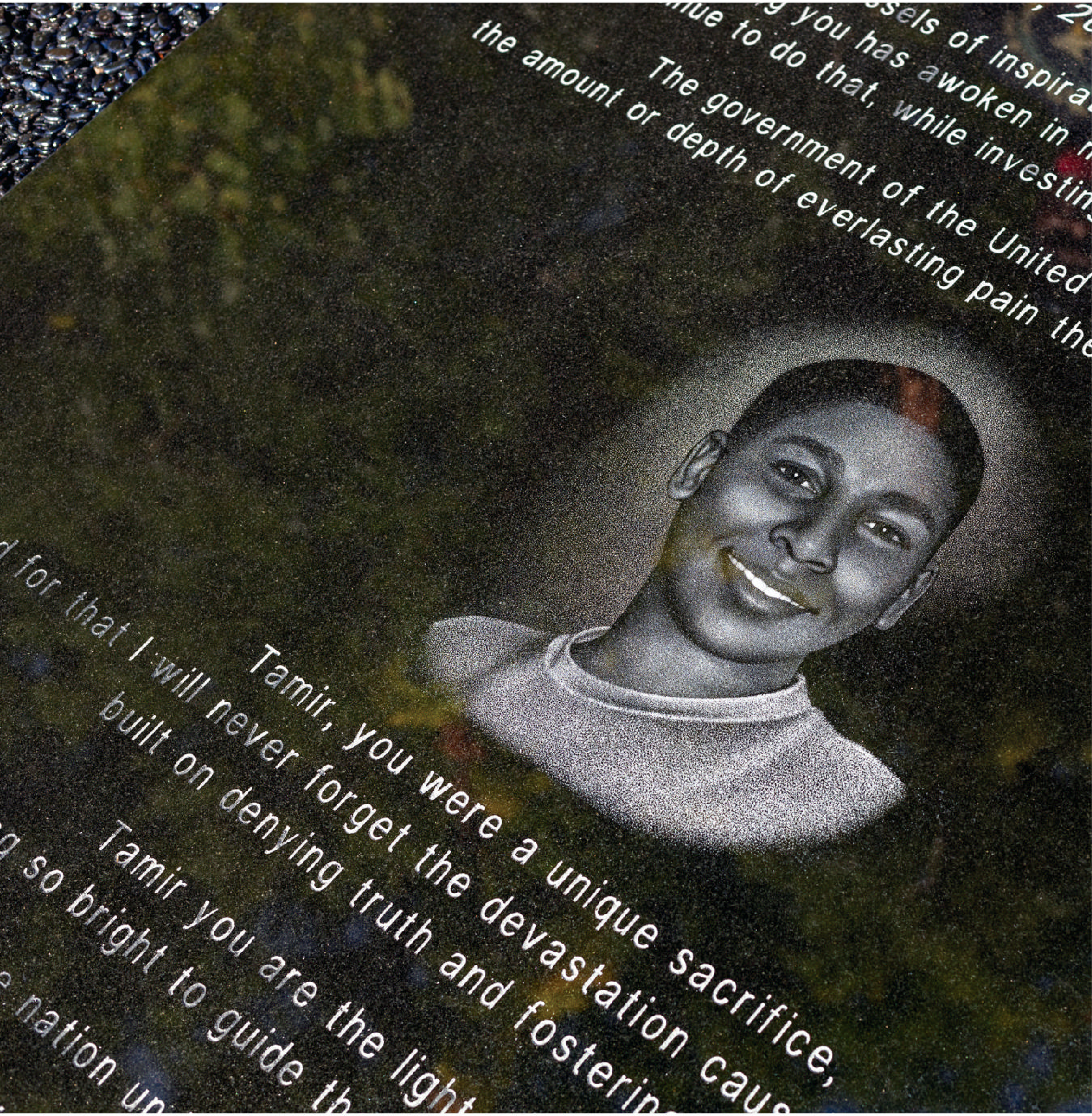
BY ANJULIE RAO / PHOTOGRAPHY BY SAHAR COSTON-HARDY, AFFILIATE ASLA

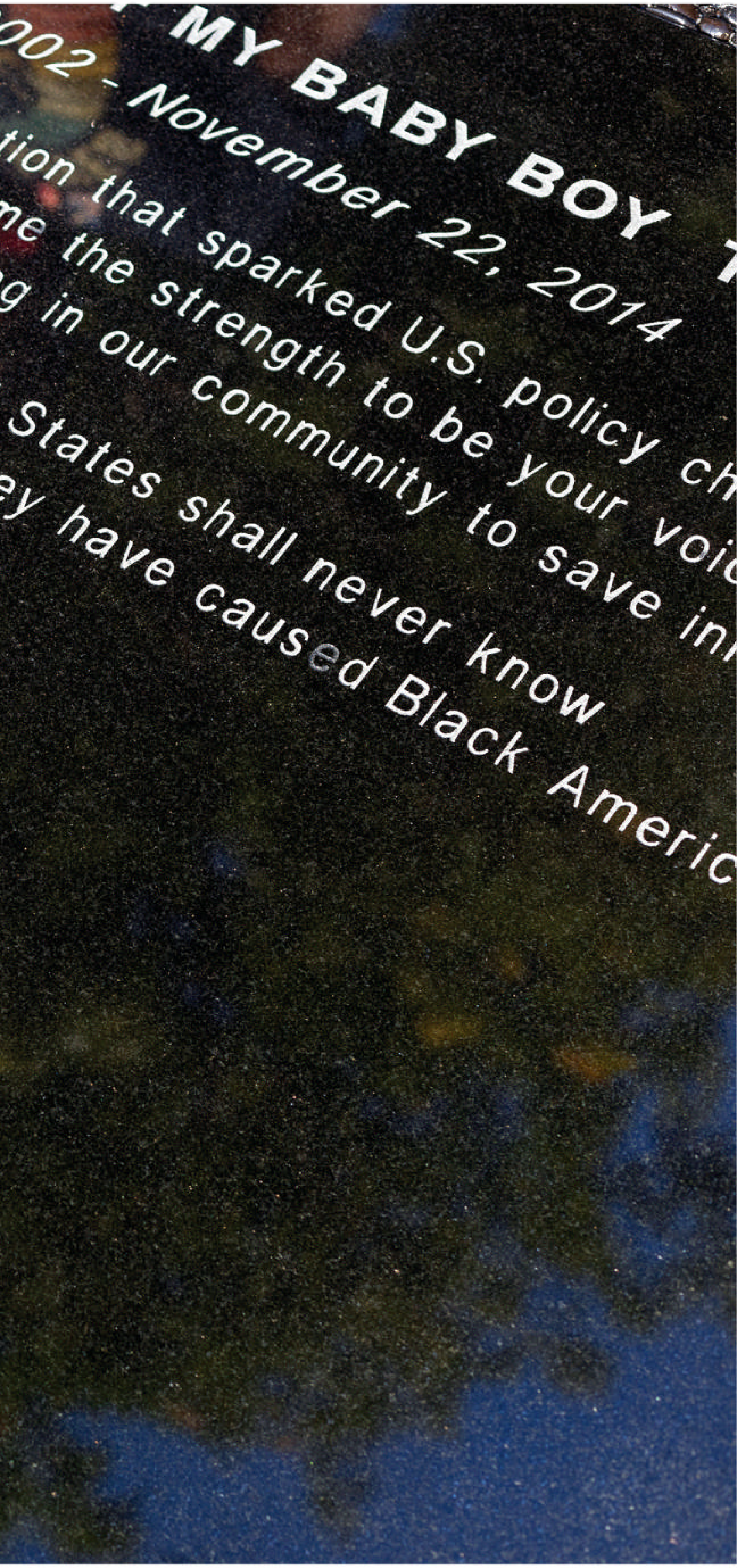


ABOVE
The quarter-acre Rice Butterfly Memorial garden's gentle slopes create a rain garden, while pathway colors symbolize the site's tragic past.

THE BUTTERFLY EFFECT




sels of inspira
you has awoken in
lue to do that, while investin
The government of the United
the amount or depth of everlasting pain the
Tamir, you were a unique sacrifice,
for that I will never forget the devastation caus
built on denying truth and fostering
Tamir you are the light
so bright to guide th
nation un


MY BABY BOY T
002 - November 22, 2014
tion that sparked U.S. policy ch
me the strength to be your voic
g in our community to save in
States shall never know
ey have caused Black Americ

LEFT
The hand-chiseled memorial plaque is designed to resist rain and snow. The text was written by Tamir Rice's mother, Samaria Rice.

I ARRIVED AT THE MARION C. SELTZER ELEMENTARY SCHOOL PLAYGROUND around 11:00 a.m., just before the day's heat peaked. It was a Friday, and students were making the short commute between the elementary school and the Cudell Recreation Center, located just a stone's throw northwest. A group of toddlers had gathered with their teachers—likely a preschool daycare—along a bench that bordered a butterfly garden. One small child stood quietly over the garden's reflective black plaque laid flush with the ground; he gazed into his own reflection. The summer light overhead made the plaque appear as a pool of water. He took a step onto its surface and was stopped by a teacher.

"Be careful!" she called, pointing to the glinting marble. "Don't step on the photo! *Está muerto."*

"He is dead?" the boy inquired. "Why?"

"He got hurt," she replied.

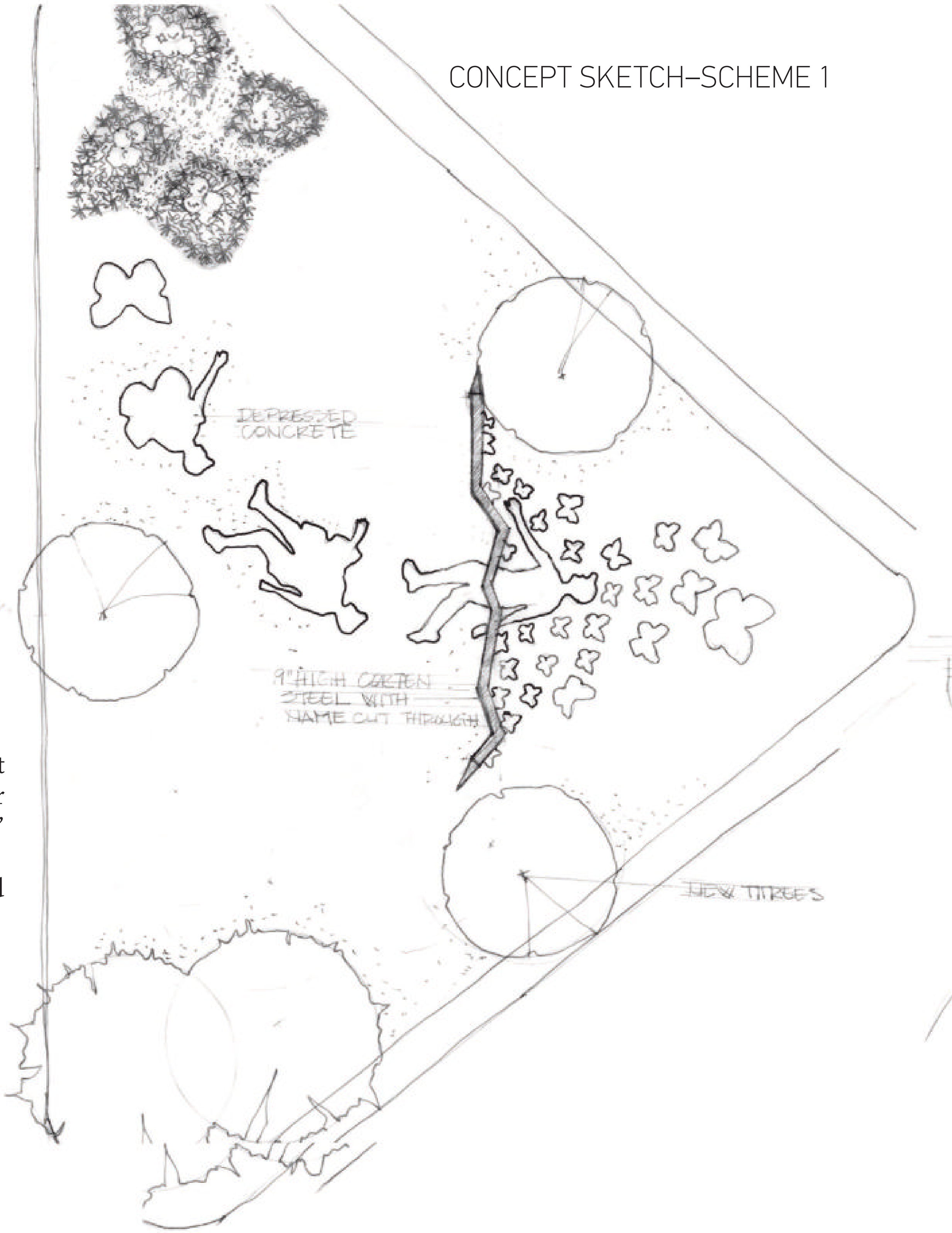
Though it appears like water, the plaque's physicality is quite the opposite: solid, permanent, and unflinching to forces nearby. The face engraved upon it, the one that looked back to the child, also emanates a sense of permanence—a portrait of a young boy, smiling in a white T-shirt. Tamir Rice, captured in stone, shines in the afternoon sun.

RIGHT
At the memorial's unveiling, which took place in the summer of 2022, Samaria Rice (far right) and other family members released doves.

Just a few months after 12-year-old Tamir Rice was brutally shot and killed by Cleveland police officers, the community came together to build a butterfly garden on the site of his murder. Samaria Rice, Tamir's mother, had been in touch with local organizer Molly Nagin and resident Shelly Gracon, who suggested that the site that marked Tamir's violent death could become a place of healing. Nagin, a Cleveland native, had been studying permaculture design and got involved with the Tamir Rice Justice Committee along with her longtime-activist parents. Collaborating with local artists and volunteers, they assembled the Butterfly Project.

"We built it with the kids. And we brought in some plant experts, experts on how to put a wall together to teach kids and Ms. Rice how to do mortaring," Nagin says. Residents of the Cudell neighborhood and teachers from Seltzer Elementary, alongside fellow Clevelanders, planted flowers and laid stone pathways. Wood bollards and retaining wall stones surrounding the garden were painted bright orange—a nod to the plastic tip placed on toy guns, like the one Tamir Rice had when he was shot. Artists created stencils used to decorate the bollards with "Young Black King Tamir."

Between 2015 and 2020, the garden served as a quiet memorial. But there was still an opportunity to formalize the space, sealing into the ground



CONCEPT SKETCH—SCHEME 1

DIANE JONES ALLEN, FASLA, DESIGNJONES LLC

Tamir's memory and his death as a catalyst for movements to protect Black lives. "I just realized it was very homegrown. And that was beautiful," Nagin says. "There was a lot of heart there. But I just knew [Samaria] deserved better and more, as did the family and the community."

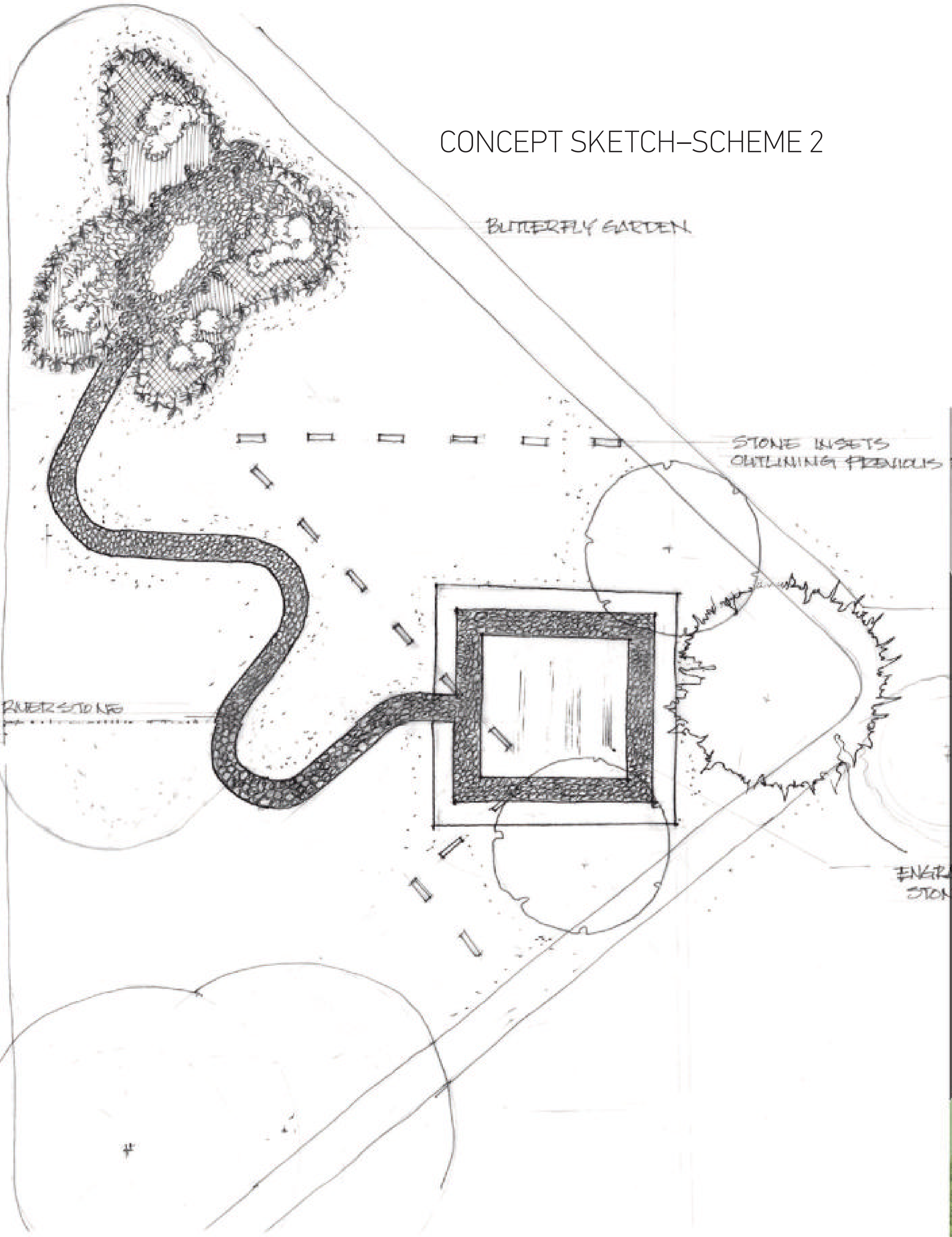
In the summer of 2022, marking what would have been Tamir's 20th birthday, the new Rice Butterfly Memorial garden opened to the public. Designed by Diane Jones Allen, FASLA, the founder of DesignJones LLC and the director of the landscape architecture program at the University of Texas, Arlington, with the local firm DERU Landscape Architecture, the new garden provides a refreshed space to hold Tamir's memory. Its completion is also a literal and symbolic gesture of permanence: In a country that prefers to forget its sins against humanity, the thriving garden—and its message—stands strong through deep freezes and spring awakenings.

In September 2019, Nagin reached out to the team at DERU Landscape Architecture, a Cleveland-based firm founded by Jayme Schwartzberg, ASLA, to ask if they might design the new memorial garden. "I was like, 'I would totally do it. I'd be absolutely honored. But I don't know if you want two white ladies designing the memorial; it doesn't feel right,'" Schwartzberg says. She remembered Austin Allen, ASLA, a Black, Cleveland-born landscape architect whom she met when she first moved to the city in 2006. Allen and his partner, Diane Jones Allen, now run DesignJones out of their Arlington, Texas, office. DesignJones had also worked on the Mr. Fred Rouse Memorial in Fort Worth, Texas; Rouse was lynched by a white mob in 1921.

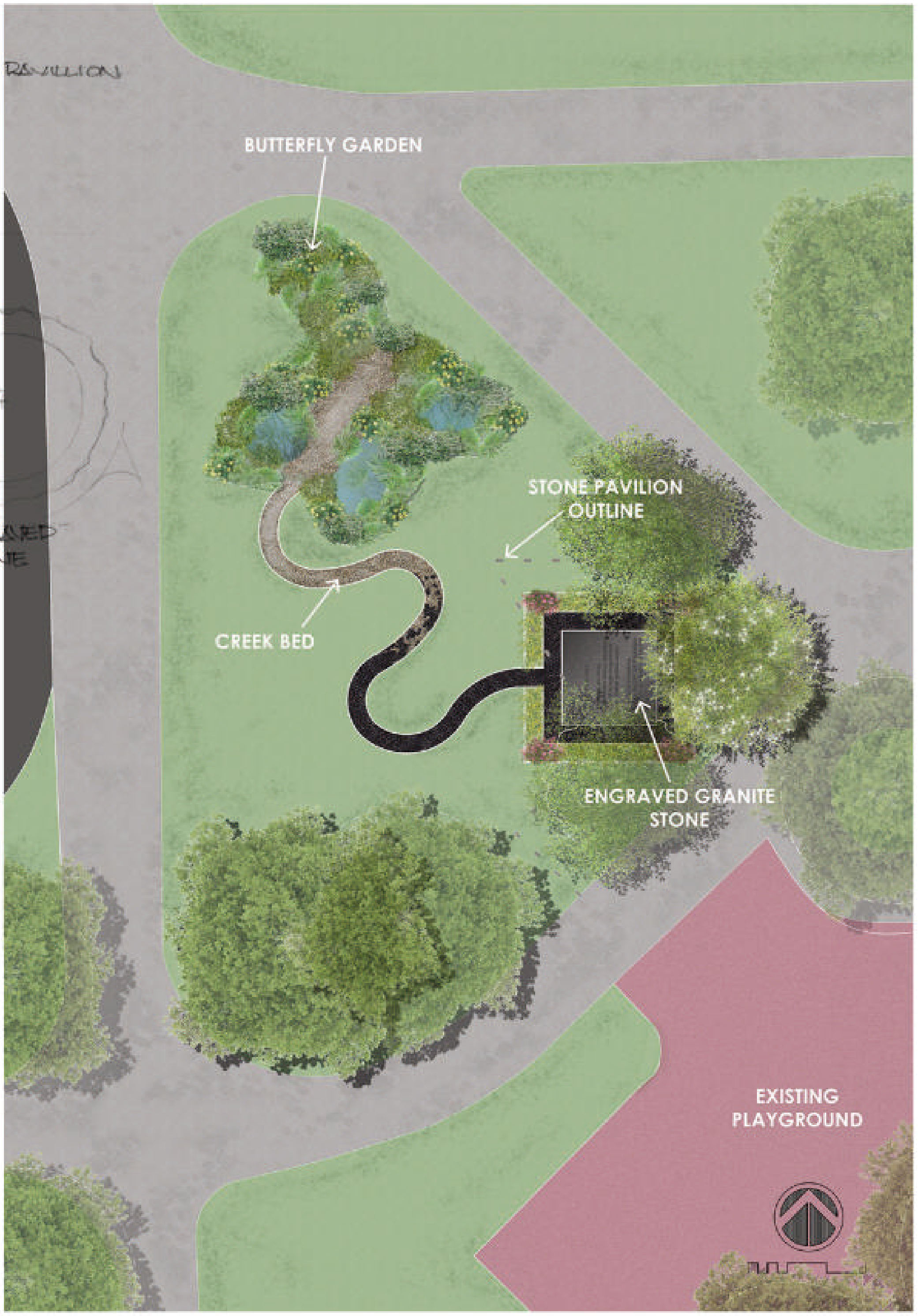
A month later, "Jayme called Austin. And we said we were honored; we'd be glad to work with her on it. So, I flew out here and I met Ms. Rice," Jones Allen says. DERU remained involved as the landscape architect of record.

In 2020, when Rice, Nagin, and Jones Allen were pondering what could be done next to rebuild the butterfly garden, they sought a multifaceted solution. Rice had lived through the death of a child and the subsequent media torrent and knew that the garden had to be as much a political statement as it was a place for healing.

"I wanted [it] to be peaceful in a sense, where people can reflect on what happened in that space with my daughter and my son. And just have a sense of peace," Rice says.


CONCEPT SKETCH–SCHEME 2

BUTTERFLY GARDEN
STONE INSETS OUTLINING PREVIOUS PAVILION
RIVERSTONE
ENGRAVED STONE


CONCEPT PLAN–SCHEME 2

BUTTERFLY GARDEN
STONE PAVILION OUTLINE
CREEK BED
ENGRAVED GRANITE STONE
EXISTING PLAYGROUND

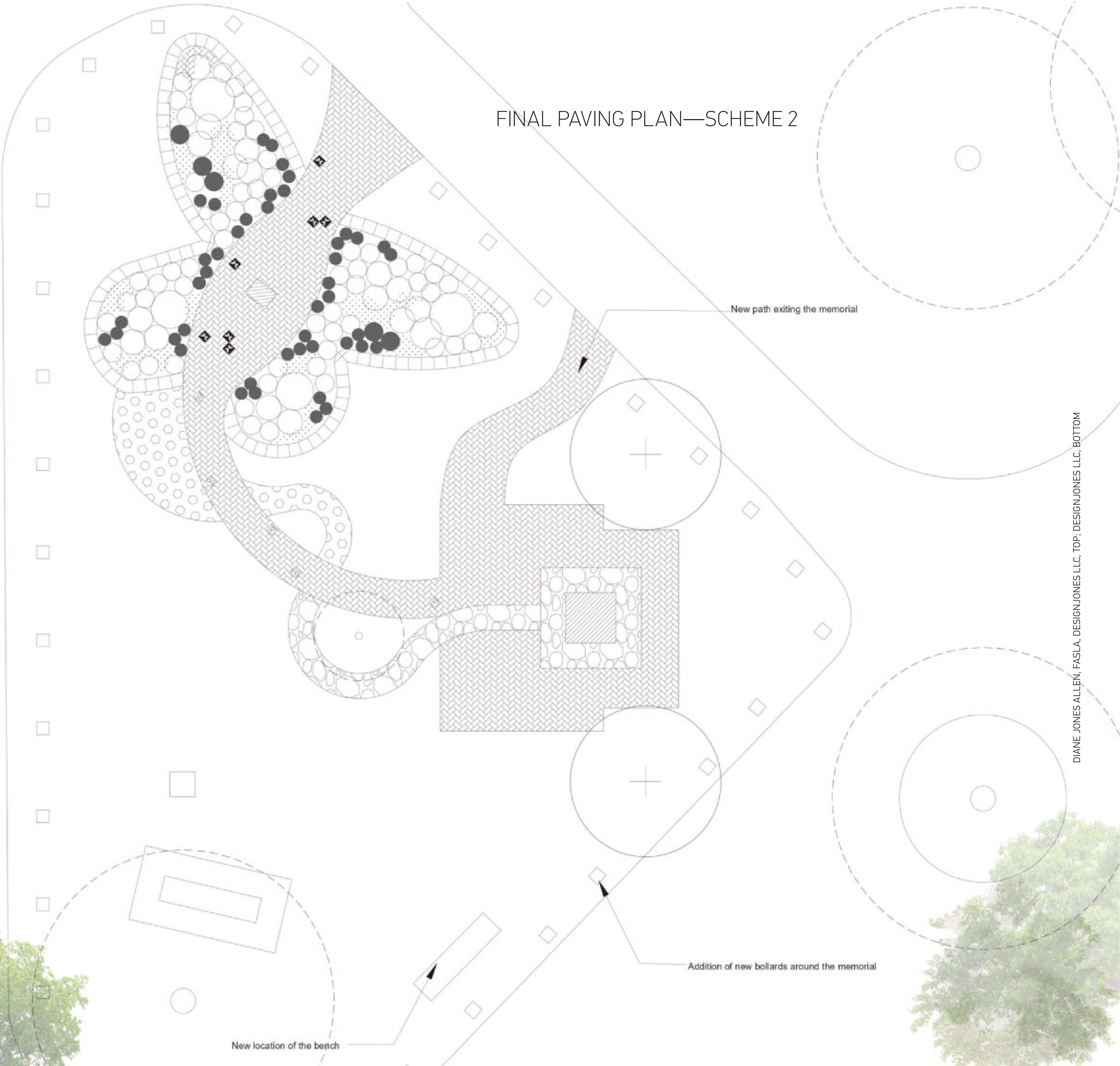
DIANE JONES ALLEN, FASLA, DESIGNJONES LLC, LEFT; DESIGNJONES LLC, RIGHT

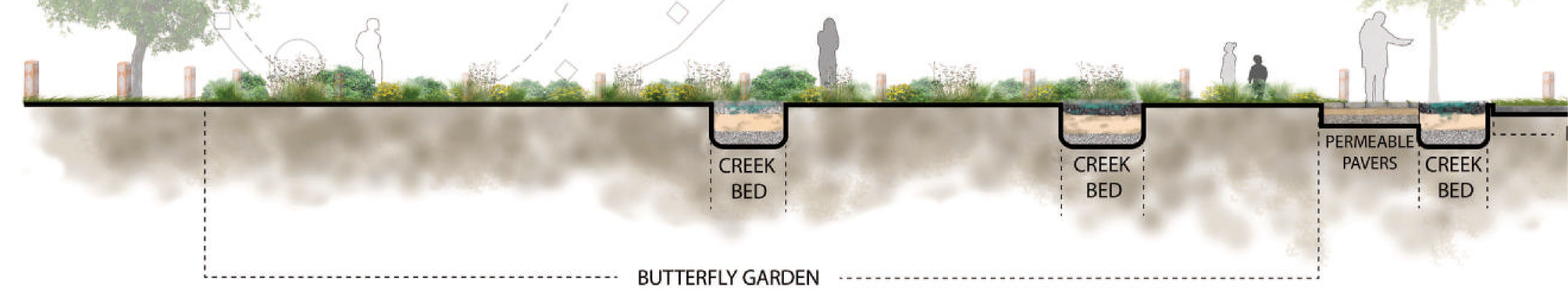
Rice and Nagin had some early conversations with the National Memorial for Peace and Justice in Montgomery, Alabama. The National Lynching Memorial structure—with massive pillars suspended from its ceiling—held some interest for Rice and Nagin, but ultimately they decided the size of the coffin-like monoliths felt unsuited to the space.

“When I came here, I said it is not what we really want. I understand the idea of lynching,” Jones Allen says. “But the butterfly garden was here; it’s a place for kids. And I just felt like you had to do both: You had to show resilience. And at the same time, yes, you have to show something horrible.”

Jones created two schemes for the memorial butterfly garden. “We [wanted] to make a landscape to claim the whole space. Because it was about what happened in this landscape, right in this space,” Jones Allen says. The first scheme consisted of pavers with impressions of butterflies that, she says, “morphed” into a boy. A final piece of Cor-Ten steel would then cut the boy’s image in half.

But it was the second scheme that was selected by Rice and completed in July 2022. The design is a series of four planted pollinator spaces that reused many of the original plantings from the garden’s


FINAL PAVING PLAN—SCHEME 2
New path exiting the memorial
Addition of new bollards around the memorial
New location of the bench


CREEK BED
CREEK BED
PERMEABLE PAVERS
CREEK BED
BUTTERFLY GARDEN

DIANE JONES ALLEN, FASLA, DESIGNJONES LLC, TOP; DESIGNJONES LLC, BOTTOM

“PEOPLE CAN REFLECT ON WHAT HAPPENED IN THAT SPACE… AND JUST HAVE A SENSE OF PEACE.”

—SAMARIA RICE

first iteration. Flowers including showy stonecrop, irises, and peonies were removed, stored on-site and cared for, and then replanted. Schwartzberg said they only needed to supplement the garden with some bee balm and *Hypericum*. The quarter-acre garden is, once again, surrounded by wood bollards, though Jones Allen says the original orange bollards had decayed and needed to be replaced.

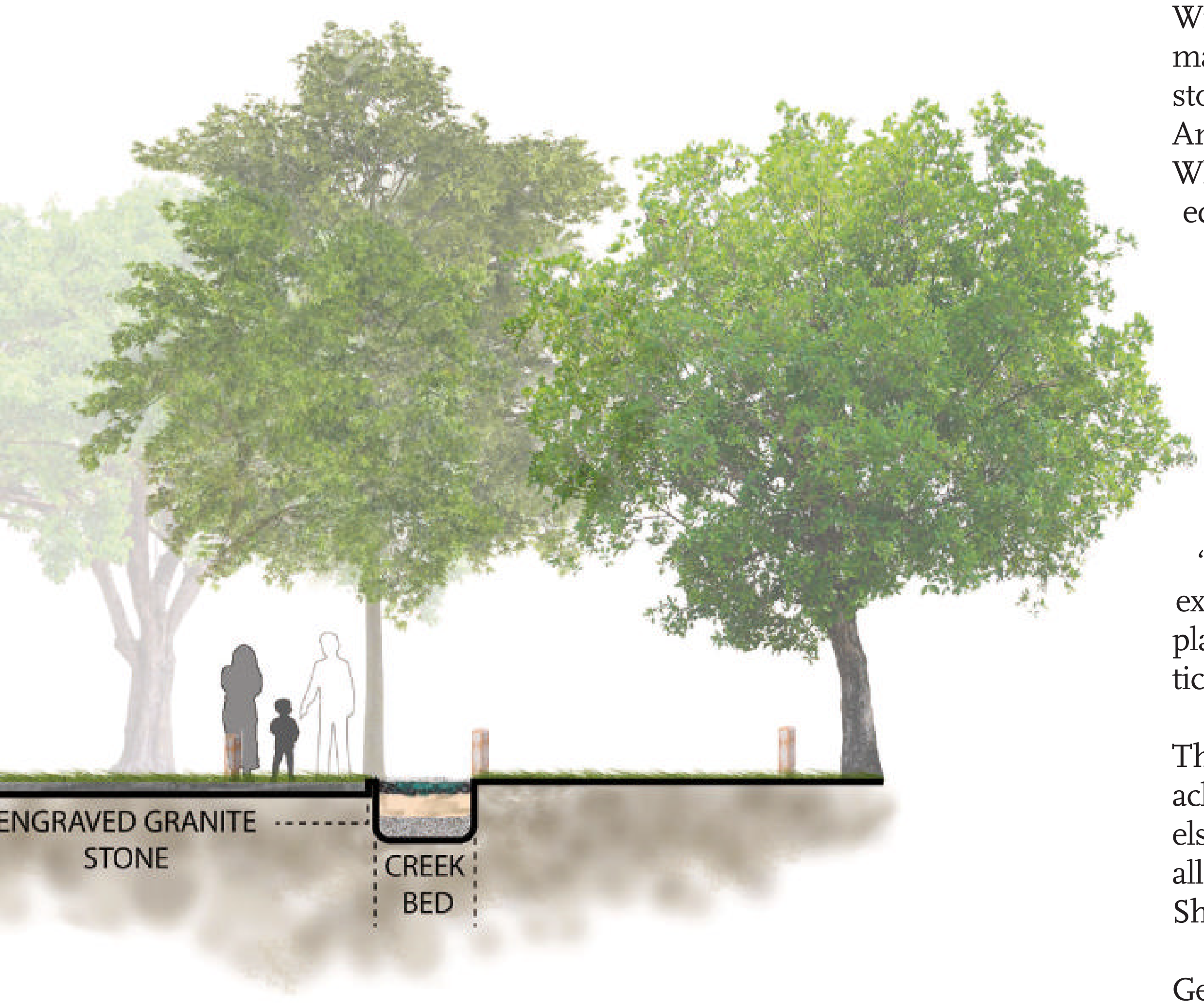
Winding throughout the four garden plots is a main path of Belden brick pavers, with handmade stone butterfly mosaics created by the local artist Angelica Pozo dispersed along the main path. When entering the garden from the northwest edge, visitors encounter the first plaque embedded in the brick path, with text by Rice that introduces the garden’s purpose: It “represents the injustice of the death of my son, Tamir Rice.” But it also marks the spot where her daughter, Tajai, then 14 years old, who was playing with her brother the night he was shot, was shoved to the ground by police.

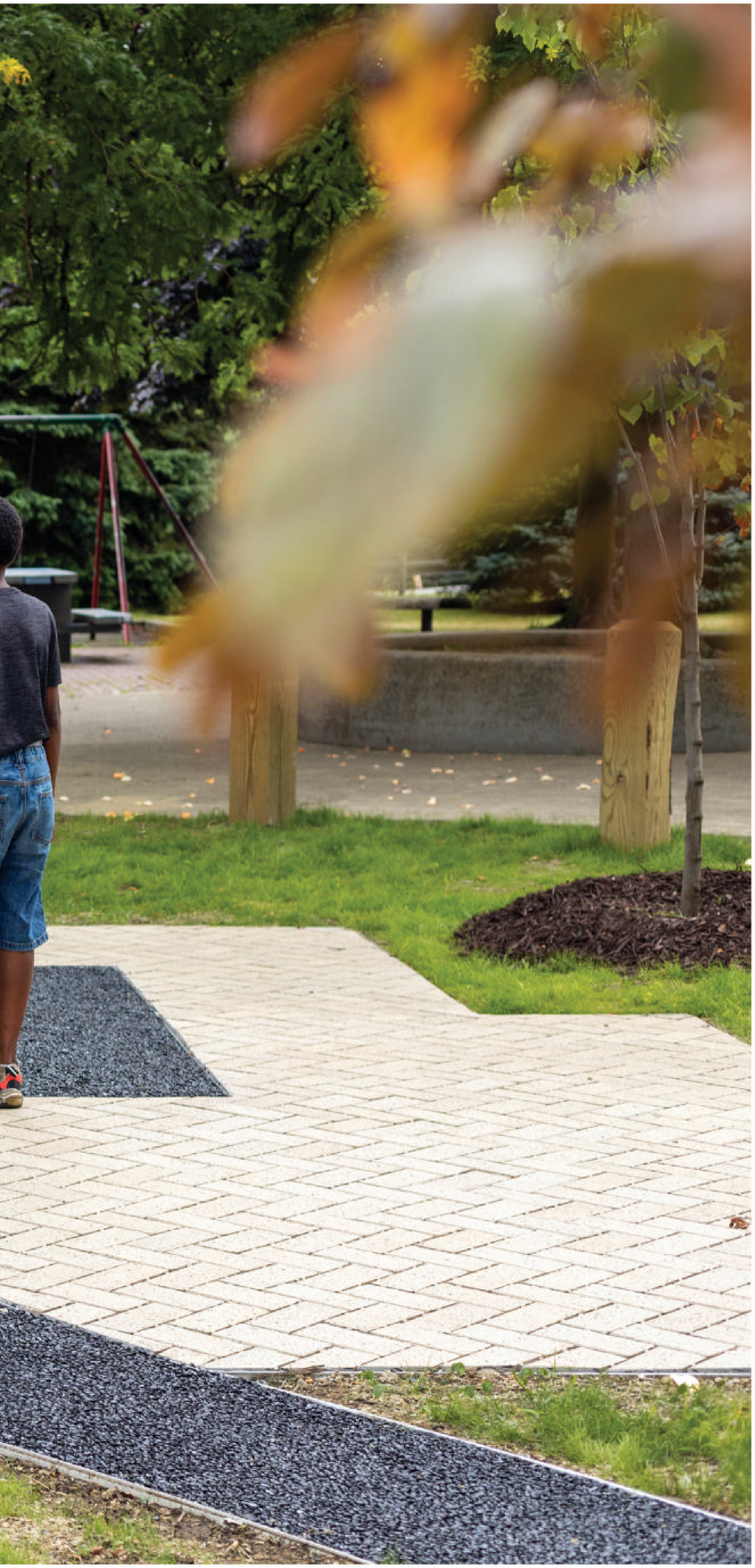
“Tajai will forever be traumatized by having experienced the horrific events of that day. This plaque will be a constant reminder of the injustices of our country,” it reads.

The plaque was important, Jones Allen says, to acknowledge Tajai’s experience. “I, like everybody else, had seen the video. It just looks like [Tamir] is all by himself,” she says. “She went to that school. She was a little kid.”

Gentle grading alterations drive water downslope and back toward the western planting bed. “There’s a culvert underneath the pathway to create the rain garden,” Jones Allen says. At the west end, small

CONCEPT SECTION B—SCHEME 2





LEFT
Diane Jones Allen, FASLA, believes the garden is a teaching tool. While it is designed to be a peaceful place for everyone, children can also visit to discuss issues surrounding safety, police violence, and protests for Black lives.

white stones coated in a permeable resin allow rainwater to enter the culvert. The white stones continue to another narrow pathway leading east toward the part of the site where Tamir was killed. Following the curve, the brick pathway intersects it twice. At the second intersection, the white pathway turns to black stone: a symbol for a life cut short.

"The other design would have kind of hit you over the head. This design was meant to be, *Oh, it's just this beautiful thing,*" Jones Allen says. "Once you start reading and kind of really looking at that stone as it turns black, it's really like a grave. But the reason why to have it like this is so that kids and [older] people can come up and have the discussion that they need to have without being turned off."

The black path leads to the garden's head: a large, square patch of the black stone placed between two newly planted white-flowering redbud trees. Within the box is Tamir's landmark plaque. "It's the idea of how young Black men are put in a box," Jones Allen says. "You're put into a box as a 12-year-old, even when somebody calls and says it could be a kid with a toy gun. Immediately, they put you in a box; you're immediately a criminal." The plaque features a photo of Tamir that was hand-chiseled by Milano Monuments into charcoal-colored marble—a method that protects the image from harsh winters and road salt. The text was written by Samaria Rice.

"I think I just wrote it from my heart and really wanted to express the pain and the hurt that this country has put on us as Black people and children," Rice says.

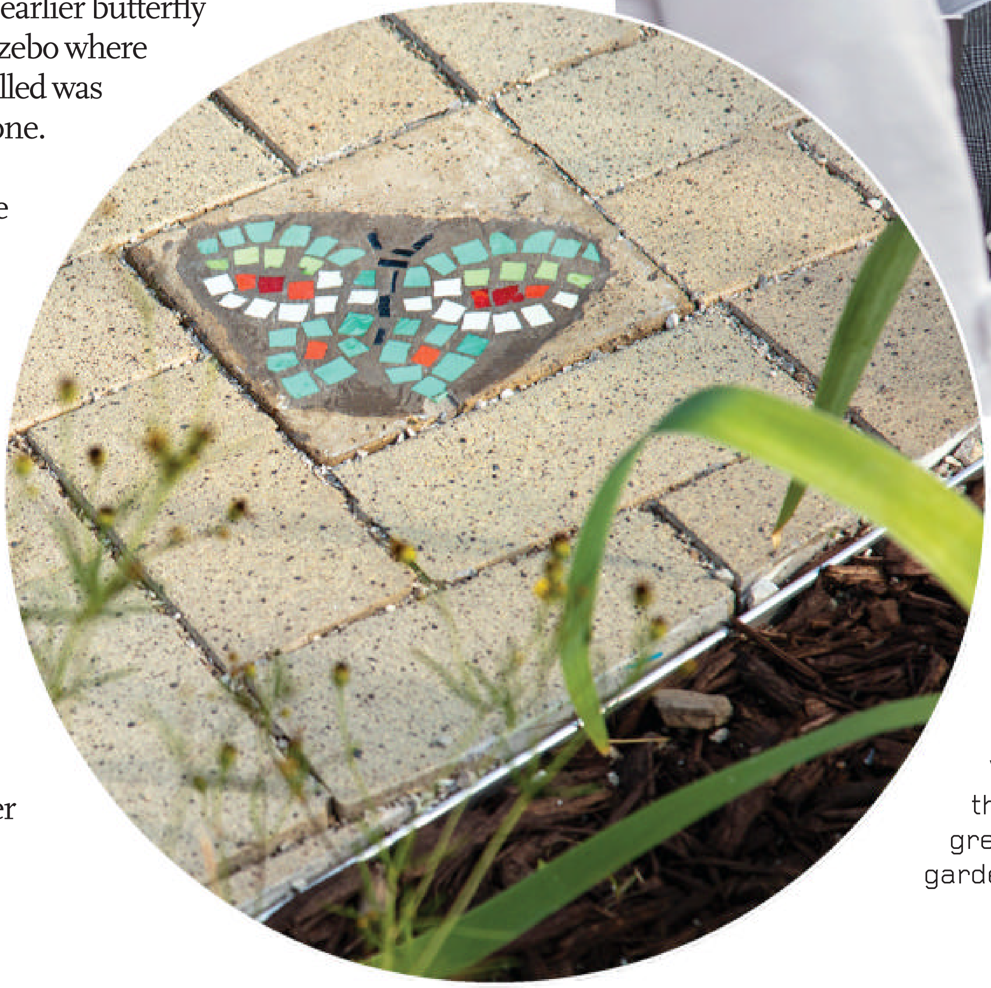
The garden's striking contrast between lightness—flowers, congregating bees and butterflies, newly

> “IT’S THE IDEA OF HOW YOUNG BLACK MEN ARE PUT IN A BOX... YOU’RE IMMEDIATELY A CRIMINAL.”
>
> —DIANE JONES ALLEN, FASLA

planted saplings—and the heaviness of the material palette that includes brick, stone, resin, and marble—is also symbolic. It carries the weight of a community’s grief, with the promise of new beginnings through change and reform: the violence inherent in a young life ended too soon, but the enduring presence of his memory.

Samaria Rice recalls not just the trauma of losing her child, but also of the intense politicization of the killing that thrust her into the public spotlight. She watched “vultures” arrive to co-opt Tamir’s story. “I had to share him. And I don’t want to continue to share him.... I love the support that the world gives me. But when it comes to my story, I’m the only one that can tell it,” she says. Conflicts arose in 2016 as she began to address the site of Tamir’s death: Though the earlier butterfly garden was thriving, the public gazebo where Tamir was playing when he was killed was still present, and she wanted it gone.

The gazebo, an unremarkable shelter, had sat next to the Seltzer Elementary School playground for decades. “What was told to me is that some of the parents ...wait for their children [at the gazebo] after they [get] out of school,” Rice says. But after Tamir’s death, it became the site for mourning: Visitors left stuffed toys and candles on the cast-concrete benches in the weeks following. Rice saw the gazebo both as a nuisance to the community and as an unwelcome reminder of her



LEFT
Stones featuring butterfly mosaics by the local artist Angelica Pozo are dispersed throughout the garden path.

OPPOSITE
Volunteers and staff from the Tamir Rice Foundation greet visitors at the garden’s unveiling.

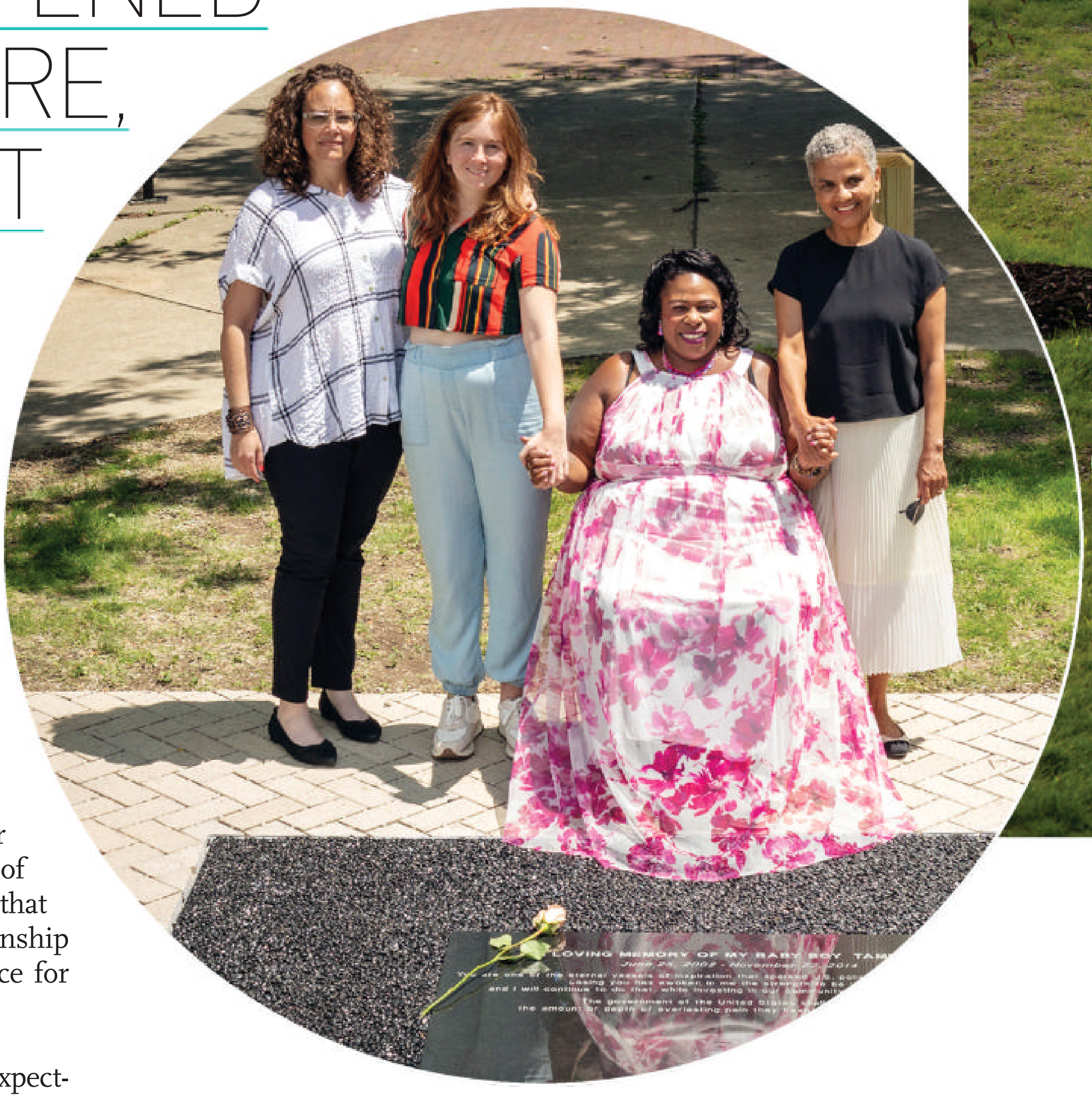
loss. She campaigned heavily for it to be removed and the city planned the gazebo's demolition, but it was delayed by a coalition of activists who wanted the gazebo preserved on the site.

"She took a lot of heat from activists who said 'That's not the right move; you can't erase that history,'" Schwartzberg says.

Rice heard their pleas and agreed to preserve the structure, so long as it was moved off the site. The Rice family had received a $6 million settlement from a lawsuit against the city and the police department, and she used those funds to create the Tamir Rice Foundation—an organization that would provide after-school programs for Cleveland youth and advocate for police reform. The

“THEY WANTED TO ERASE THE MEMORY OF WHAT HAPPENED RIGHT THERE, AND I DID NOT LET THEM.”

—SAMARIA RICE



foundation obtained ownership of the gazebo and took responsibility for its relocation. In September 2016, it was dismantled and reassembled in 2019 at the Stony Island Arts Bank on Chicago’s South Side by the artist Theaster Gates.

Rice says that the city, as part of her settlement, agreed to give her access to the site in Cudell where Tamir was killed to place a memorial. The city’s then-commissioner of real estate (and now the commissioner of capital projects), James DeRosa, ensured that the site would remain under the guardianship of Rice. (Attempts to reach DeRosa’s office for comment were unsuccessful.)

“You can get a use permit, which is what I expected, or you can get an adoption agreement—what we very frequently see when people do things on public property—where citizens agree to take care of it,” Schwartzberg says. “This is not that.” The agreement grants Rice access to the site in perpetuity, and it can’t be revoked without a legislative act.

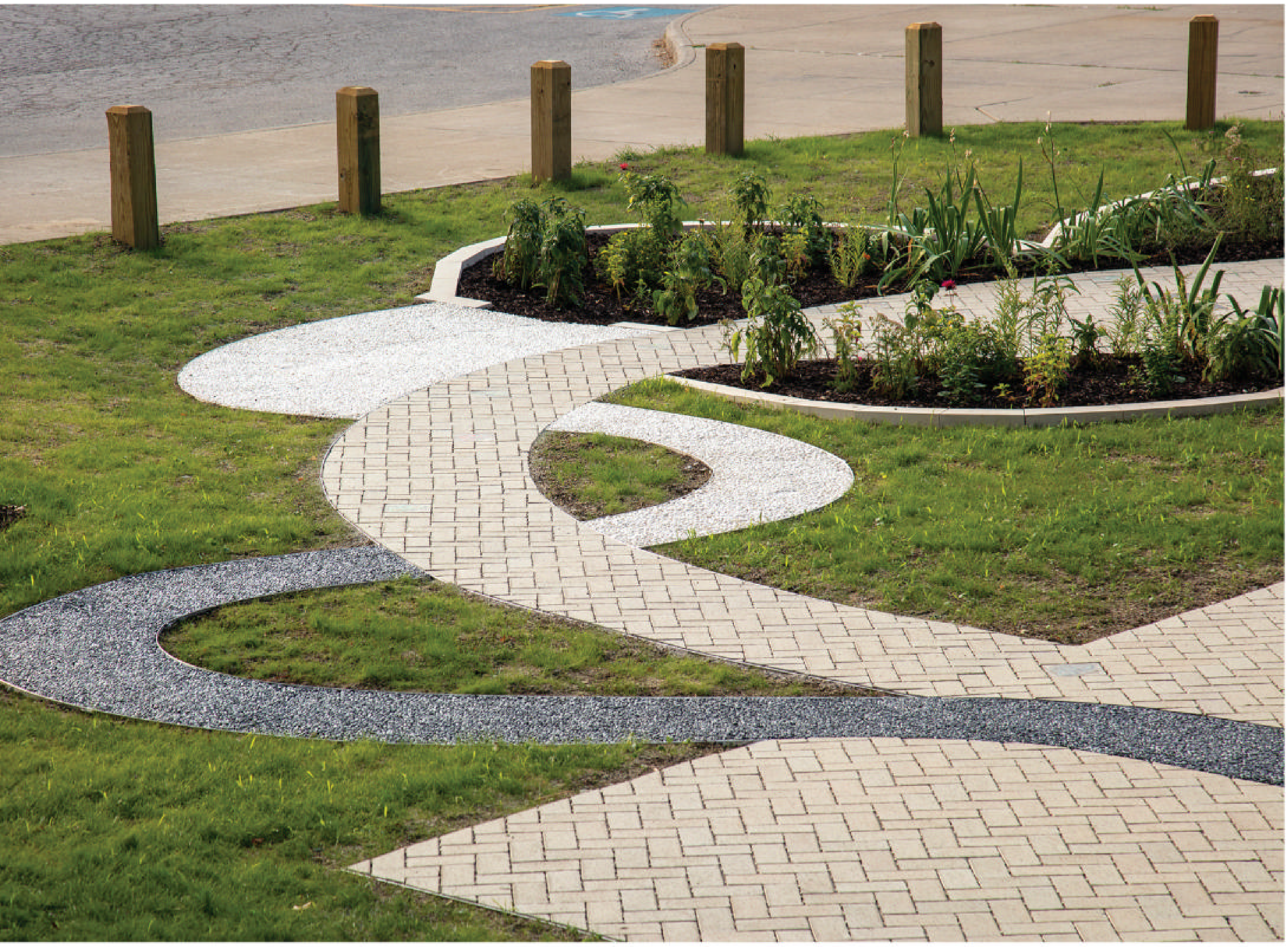
Though the garden is permanent, the larger Cudell Recreation Center site is currently in flux: Seltzer Elementary will soon be demolished and relocated north, across the existing sports field that sits on the park’s northern edge. The city agreed in 2021 to a land swap that would exchange 2.2 acres of sports fields next to the Cudell Recreation Center with land currently occupied by Seltzer Elementary. Once the demolition and construction of the new school are complete, the memorial garden will no longer be adjacent to the school; the large, old-growth trees shading the garden’s northeast corner will be removed.

Whatever the outcome of these shifts, the area surrounding the memorial will look nothing like it did in 2022. Contextually, the garden’s proximity to the elementary school reinforces the violence of Tamir’s death. While it’s likely a necessary upgrade, the broader landscape change felt relevant to Rice’s sentiments about the city. “They wanted to erase the memory of what happened right there, and I did not let them,” she says. “So, the city is upset with me. Because I talked back, and I fight back.”

The city, she explains, did not expect her to use her settlement funds to reinvest in her commu-

ABOVE
From left to right are Jayme Schwartzberg, Molly Nagin, Samaria Rice, and Diane Jones Allen.

OPPOSITE
The winding pathways encourage meandering and contemplation, while a belowground culvert directs rainwater toward the garden beds.



nity. “They wanted me to take the money and just be quiet. But I showed them something different when I purchased the commercial building.”

In 2018, in honor of what would have been Tamir’s 16th birthday, the Tamir Rice Foundation announced the Tamir Rice Afrocentric Cultural Center, and raised more than $30,000 to renovate a two-story red brick structure on Cleveland’s East Side. The project, designed by the local architect Sandra Madison and her firm, Robert P. Madison International, Inc., broke ground in late 2020 and will provide arts-specific programming to Cleveland youth. Fine art, music, and theater will be offered, programs that Rice sees as low priorities in the city’s public schools. The center, she hopes, will help children find their passions and purpose, but also keep them safe.

The Tamir Rice Foundation, the Afrocentric Cultural Center, and the Rice Butterfly Memorial will work together to address children’s safety and welfare—fundamentals that allow children to be children. The foundation has also created the *Tamir Rice Safety Handbook* with the ACLU of Ohio, a publication available online for free that provides young people with important information about navigating encounters with the police. The Afrocentric Cultural Center will provide them with safe spaces for creative expression, and the garden, Jones Allen says, can serve as a physical space that sparks community conversations about justice and safety for generations to come.

“[The garden] allows the opportunity for teaching, because there is a school here,” Jones Allen says. For older kids, the conversation will be honest about the violence that occurred there. Younger kids can read the plaque and ask questions. “It’s pretty blunt and powerful,” Jones Allen says.

Rice is providing access to tools, resources, and spaces that she never had—giving parents the chance to talk to children about police safety. “You have to have those hard conversations with [children] because of the society that we live in

LEFT
The addition of two new benches offers respite and moments of quiet while students at the nearby school freely play.

now. I never thought I had to talk to my son about the police, because I was not aware of so much of what was going on."

The Rice Butterfly Memorial has been a labor of love and grief. It is a lesson in how we might collectively grow and establish memorials that can generate meaning and transformation from loss: memorials that can make overt and permanent connections between movements for racial justice and the anguish felt by a family and a community. While this is present across the garden's features—the stones coated in resin, the hand-chiseled plaque placed in the black box—it feels most resolute where the design team and Rice placed two new cast-concrete benches. One was placed underneath an old-growth tree overlooking the garden; the second was placed slightly off-site, between the plaque and the school playground.

Rice picked the spot for the second bench. She says she wanted visitors to have a view, from a small distance, of the plaque, but also a comfortable spot from which they could watch their children swing and scurry. Loss is present, but we keep a watchful gaze on those we must protect. ●

ANJULIE RAO IS A JOURNALIST AND CRITIC COVERING THE BUILT ENVIRONMENT.

Project Credits
CLIENT TAMIR RICE FOUNDATION, CLEVELAND. **LANDSCAPE ARCHITECT/DESIGNER** DESIGNJONES LLC, ARLINGTON, TEXAS. **LANDSCAPE ARCHITECT OF RECORD** DERU LANDSCAPE ARCHITECTURE, CLEVELAND. **GENERAL CONTRACTOR** F. BUDDIE CONTRACTING, CLEVELAND. **GRANITE ENGRAVING** ALECIA MILANO, MILANO MONUMENTS, CLEVELAND. **BUTTERFLY TILE ARTIST** ANGELICA POZO, CLEVELAND.

SANDRO SULABERIDZE

RANGE ROVER

WITH BIG PROJECTS AND UNTETHERED AMBITION, RUDERAL FORGES A NEW KIND OF PRACTICE IN THE CAUCASUS.

BY JESSICA BRIDGER

PHOTOGRAPHY BY GIORGI KOLBAIA

ABOVE
A model of Arsenal Oasis in Tbilisi, Georgia, reveals the roots of Ruderal's practice.

RIGHT
Sarah Cowles, ASLA, (center) at Ruderal's office with Benjamin Hackenberger and Ana Petriashvili.

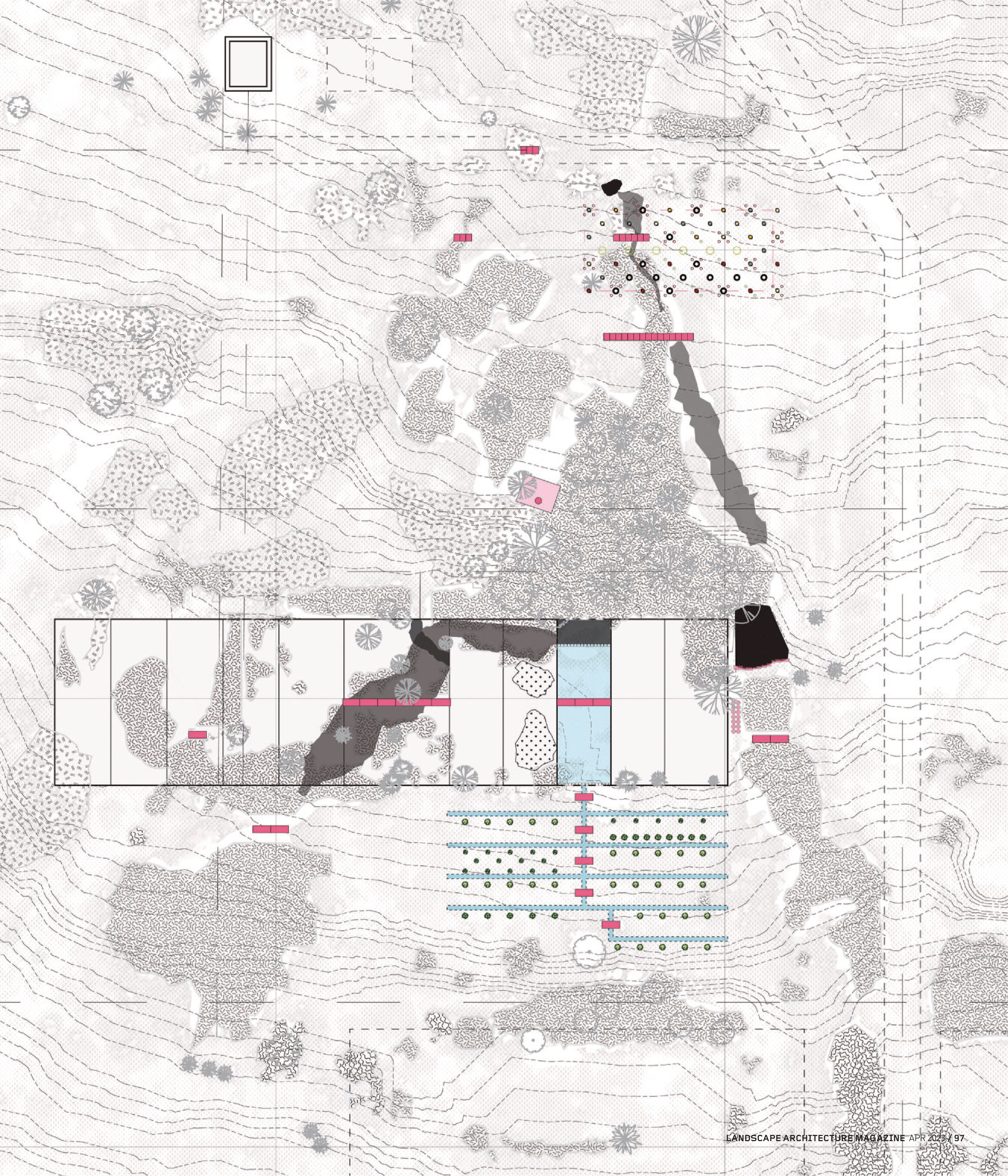
BELOW
Cowles, center, with friends and colleagues at the Arsenal Oasis site.

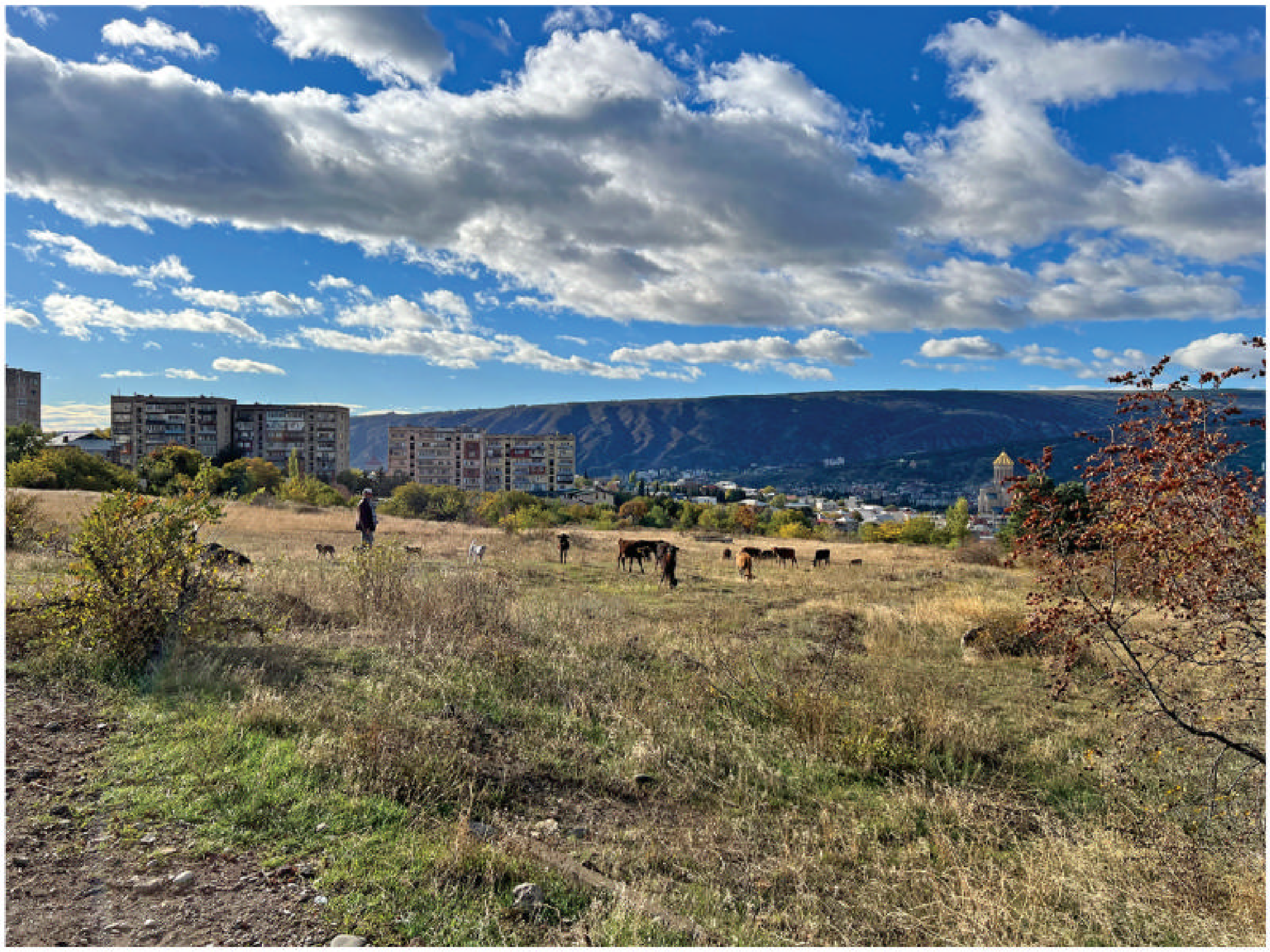
OPPOSITE
A plan of the Arsenal Oasis garden.

RUDERAL, OPPOSITE

“I finally got to build the diagram I’d been imagining,” Sarah Cowles, ASLA, says, gesturing at the Arsenal Oasis garden in Tbilisi, Georgia. The diagram Cowles built is a wild place, with a perched wetland oasis enabled by broken water pipes, negligent developers, and nasty wild dogs kept at bay by a roving cattle farmer. Arsenal was built for the 2020 Tbilisi Architecture Biennial, a single-hectare “place” picked out of a development-dormant ridge landscape above Tbilisi. There’s barking in the distance as Cowles grins at sun-touched mist from a rusty pipe, creating a rainbow backgrounded by lush *Phragmites*.

Cowles is operating at a frontier: of landscape architecture, of urban development, of current events. Her studio, Ruderal, was founded in 2020 with two partners: architect Giorgi Nishnianidze and landscape architect Ben Hackenberger. The studio grew out of Isthmus, a 2018 joint venture by Cowles and architect/geographer Jesse Vogler, compatriots from the Center for Land Use Interpretation, the diffuse and storied nonprofit with locations in California and Utah. Vogler departed to lead the architecture program at the Free University of Tbilisi, and Cowles forged forward in practice. She’s come thousands of miles from home to do something radical: to make room for landscape architecture far from the safe confines of the established discipline. It is October 2022, and I’ve traveled to Georgia to see how far she’s come—and find out where she’s going.





LEFT
Arsenal Oasis opens up a uniquely urban pastoral landscape, with cows.

OPPOSITE BOTTOM
The site was gently altered to create a place from convergent conditions.

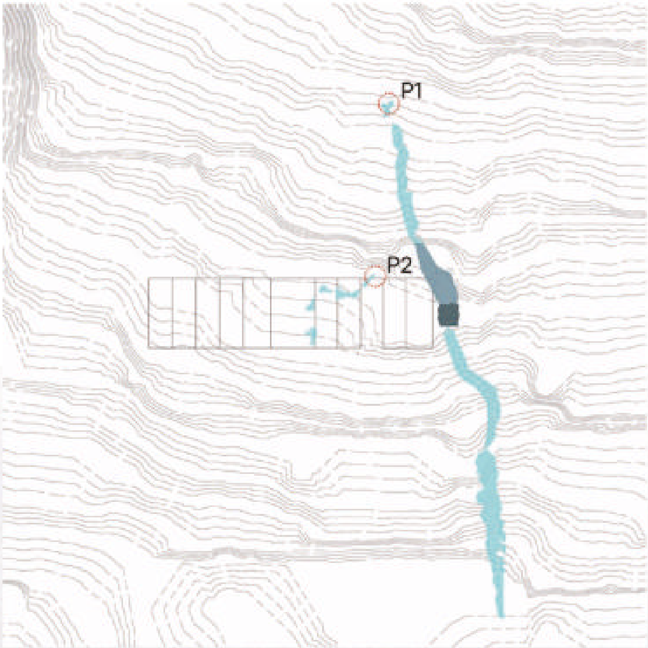
JESSICA BRIDGER, TOP LEFT

Tbilisi is a city of 1.2 million and has long been the nexus of Georgia's well-transited history. Churches, mosques, and temples sit in close proximity, in a range of architectural styles that trace the major cultures that have come through, stopped, and settled in the country. Occasionally outstanding Soviet-era modernism, as exemplified by the Bank of Georgia building and countless brutal concrete structures, are mixed with ancient wooden structures, handsome 19th-century apartment blocks, aggressive 21st-century starchitecture, and the tasteless towers of speculative development. These comprise the often-charming urban quarters that make the city eminently livable—along with a density of urban greening that (maybe) only Soviet planning did so well.

Referred to by some as the "next Berlin," the city is teeming with cultural and social life, ad hoc, bottom up, and exuberant in the freedom of both locals and those from (much) further afield, occupying a place where local costs are low and money can flow in from outside. And Cowles is far from the only person to recognize that Tbilisi and Georgia are magnets for potential.

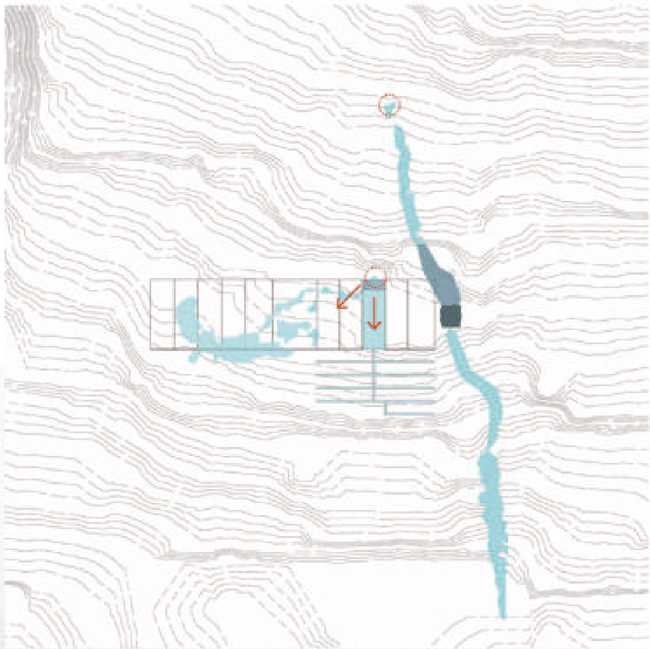
Cowles has been an outspoken and respected voice in the profession, and a decade in academia as a professor at the Ohio State University and the University of Southern California

SITE HYDROLOGY

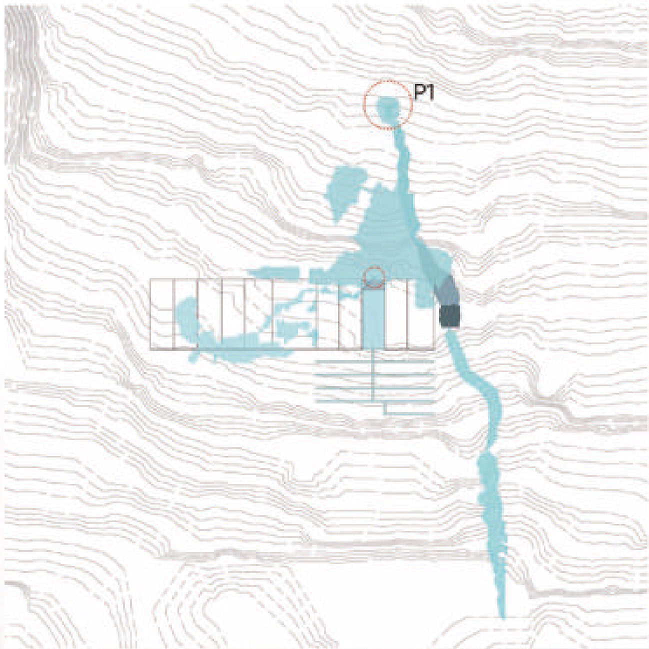


EXISTING CONDITION

P1 - BROKEN PIPE NUMBER ONE
P2 - BROKEN PIPE NUMBER ONE

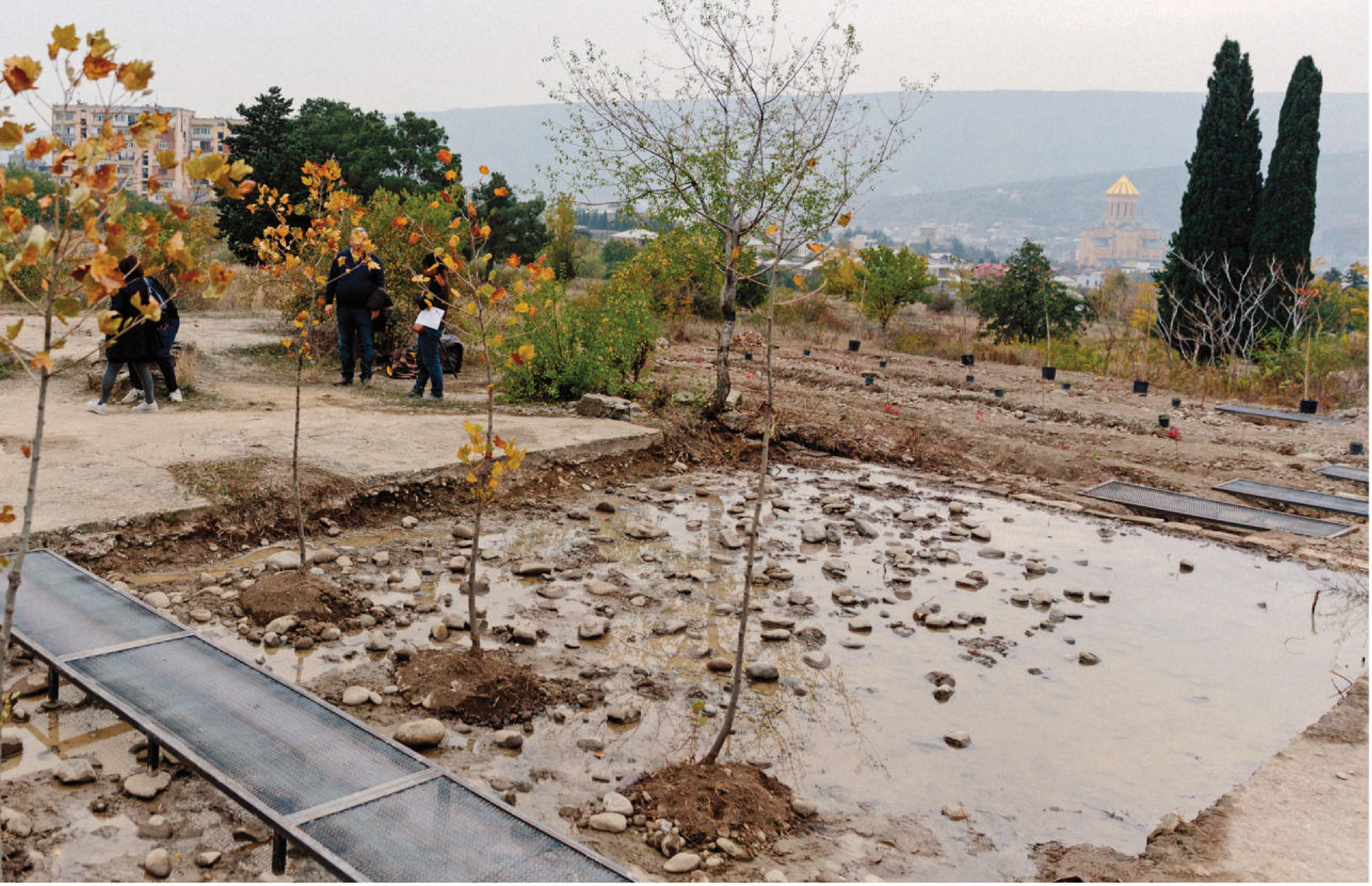


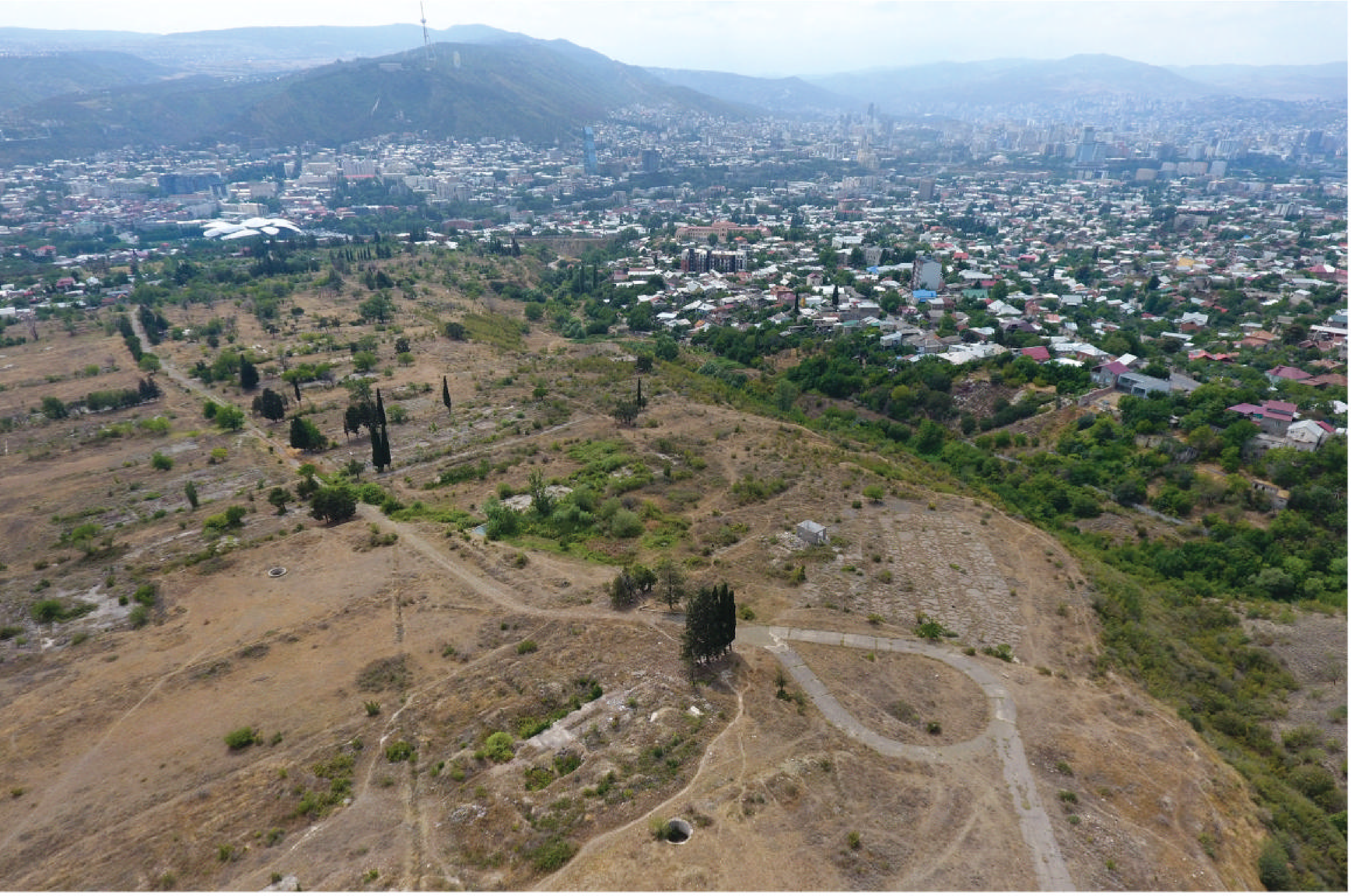
ORGANIZING HYDROLOGICAL SYSTEM



AMPLIFICATION OF P1

SARAH COWLES, ASLA, TOP





ABOVE
Thousands of years of history trace the Arsenal site, including recent Soviet-era roads and Tbilisi below.

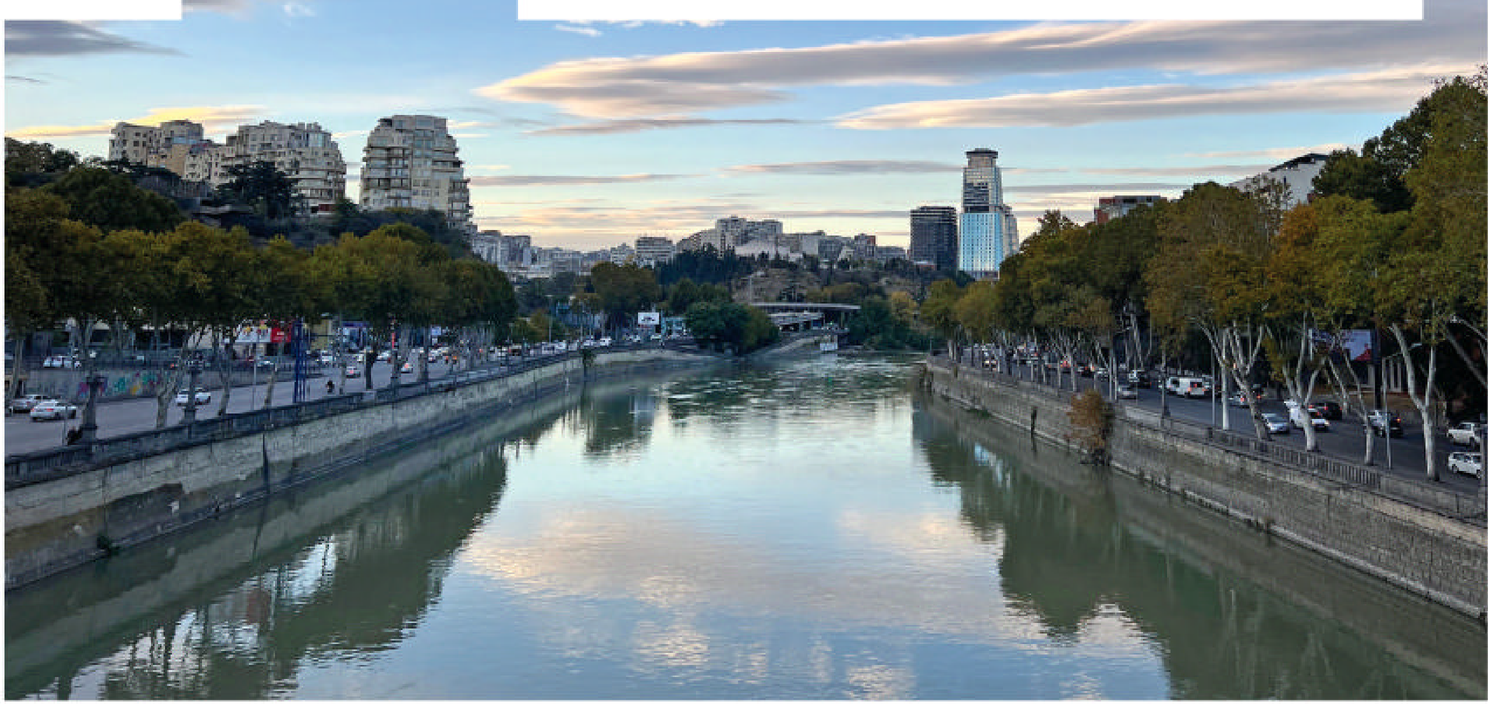
GIVI GARISHVILI

honed her academic focus, but never wore away the irreverence and sharp wit. Both were in evidence when she created the Landscape Urbanism Bullshit Generator in 2004, a web app that could spit up parodies of the overly academic, landscape-inflected urbanist jargon of the time. The generator suggests to “redefine indexical peripheries” or “reintermediate urban solutions,” its comment on hyped urbanism jargon just as relevant today. The generator is still housed on the Ruderal website—Cowles’s long-standing personal studio later reborn in Georgia.

Perhaps it is only someone who is willing to go to the edges of things and examine the middle critically who could move to Georgia and establish not just a practice but a foothold for the profession. “I often have to tell people I do site engineering and landscape architecture,” Cowles says. While it is shorthand, it still gets at the idea of landscape at grade level, in all its temporal, messy reality. It’s how she explains the value of landscape practice in a place where it is often seen as decorative or simply backdrop. “There’s no market—but there’s also no competition,” says Cowles, who works through word of mouth, as word gets out.

Свежевыжа
FRESH
Schienhofer

SCENES FROM TBILISI
Clockwise from top right: Planned and volunteer vegetation greens the city; a cobbled street invites exploration; the Kura River is an important source of fresh water; markets spill onto the street.



JESSICA BRIDGER

Georgia has a population of 3.7 million people, with about a third living in the capital, Tbilisi. It lies east of the Black Sea and shares a mountain border with Russia—the Caucasus mountains, which lend their name to the region, composed of Georgia, Armenia, and Azerbaijan. The landscape is dramatic, with 5,000-meter peaks heaving up from flat planes, dense woods giving way to sprawls of roadside urban areas and small cities. Two-lane roads move breakneck traffic from towns, joining new highways out to the Black Sea coast and branching off to end in small villages of ancient stone and cinder block. The region is a geographic pinch point, and thousands of years of trade have flowed through Georgia. Its geopolitical importance in the modern era is considerable, as it remains a major transit country for goods moving between Asia and Europe and beyond. It is an important link in China's Belt and Road Initiative (BRI), which creates global connective infrastructure such as road, rail, and communications—essentially the "new Silk Road" for the 21st century. Ostensibly a project focused on trade, BRI's economic and geopolitical impact is immense.

Georgia has many nongovernmental organizations (NGOs), including donor banks and development agencies, active on the ground, building the traditional infrastructure of growth: roads, schools, energy,

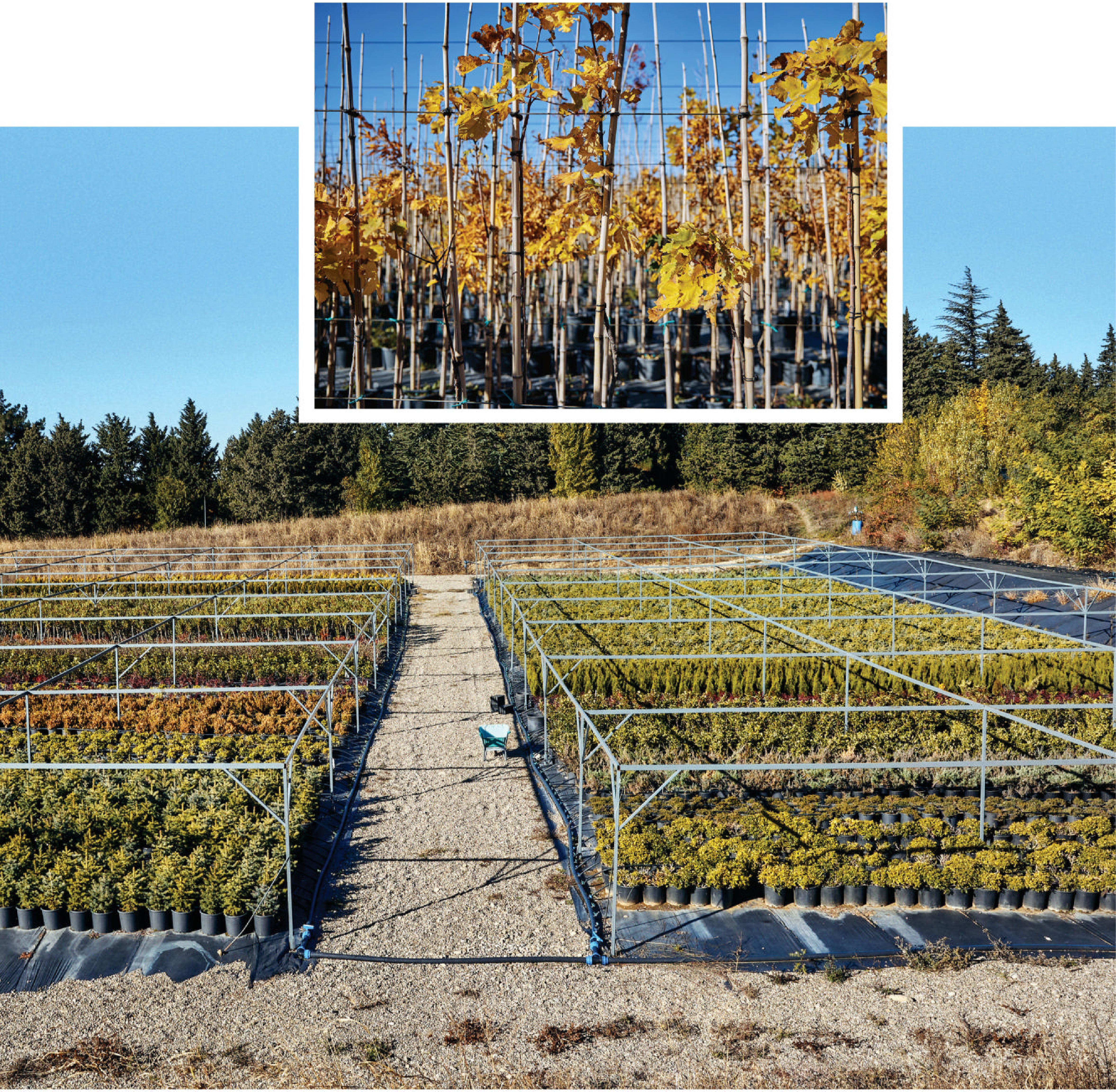
LEFT
Workers at Sartichala nursery taking a break.

BELOW
Once derelict, the nursery is the largest in Georgia.

OPPOSITE INSET
Endemic species are essential to Ruderal's forest restoration projects.

water, and more. For some projects, the development agencies partner with local entities, including private businesses, to spur development. "Our big fish is going to be these big infrastructure and development projects as the region is stitched together," Cowles says after we visit Arsenal. "But then we also are making inroads with these small local developers who are just learning that maybe they need landscape to differentiate their product." Cowles, Hackenberger, and Nishnianidze must educate their clients about landscape architecture—while also remaining flexible and not bound to business as usual in the United States, following defined phases of development or even typical client models.

Development agency/private company/developer/foundation constellations are a major source as well as partner and funder of Ruderal's work in Georgia. The development agencies, government entities, and local partners build everything from



highways to luxury hotels and parks—even plant nurseries. One such nursery is central to Ruderal's biggest built, and ongoing, project to date.

That project, to rehabilitate the Mtatsminda Forest, which will plant up to 800,000 trees in Tbilisi, is named for the mountain ("holy mountain") that Tbilisi sits below. Ruderal developed the landscape plan for the project and specified about 40 different plant species in response to the varied microclimates and ecological niches on-site. The resulting ecologically diverse plant communities are planted in distinct swaths to encourage rich habitat for flora, fauna, and visual interest. The project is a partnership between the City of Tbilisi and the Cartu Foundation, the charitable arm of one of Georgia's biggest banks. Fortunately, Soviet-era planners excluded the area from development to support urban ecosystem services in the 1920s. A mostly monoculture pine forest was planted then, which now needs amelioration because of age and environmental stresses, as well as a push toward a more diverse tree palette. Ruderal's vision for Mtatsminda supports resilient urban nature, rooted in public-awareness-raising gestures, including forest trails. The investment is nearly $5 million.

Cowles organized a travel circuit for my visit, moving east from Tbilisi through the roots, sites, and matter of Ruderal's most important projects. Our first stop is Sartichala

ABOVE
Ruderal engages the Georgian landscape, pulling history and culture together.

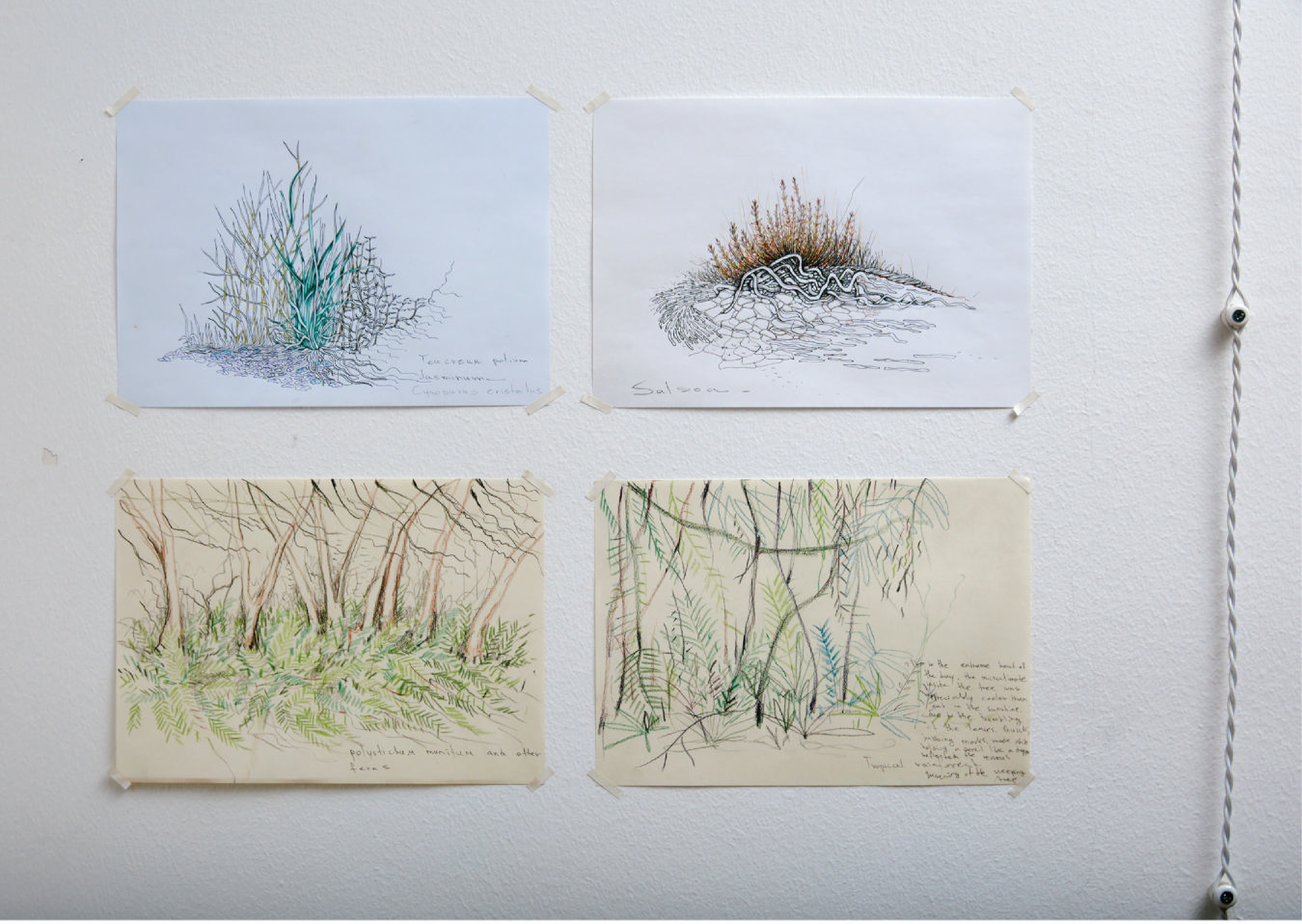
WINE AND RELIGION ARE OLD PARTNERS, AND THE SHUAMTA GATEWAY CAPITALIZES ON THIS.

LEFT
Melissa Novotny, left, joins Ruderal's Ben Hackenberger and Ana Petriashvili to prepare for the Shuamta Gateway presentation.

BELOW
Vano Vashakmadze (center) and the Archbishop David of Alaverdi (second from right) discuss the Shuamta Gateway proposal.

Nursery, currently the largest in Georgia, which is growing all of the trees for Mtatsminda. It lies in the Alazani Valley east of Tbilisi, amid the Caucasus mountains, and the wind on the berms above the nursery areas is strong. Sartichala was established in 1960, and lay fallow after Georgian independence in 1991. In the 2000s, the World Bank, among others, led its subsequent revitalization as LEPL National Nursery, later privatized as Kakhetis Karibche but known colloquially as Sartichala. Its rebirth and size make projects at the scale of Mtatsminda possible and sustainable locally. In turn, projects like Mtatsminda let Sartichala expand its offerings and capabilities.

Sartichala's director, Vakho Tsulukidze, joined Cowles and Hackenberger on the tour, showing off the newest installations and plantings. "These are our trees," Cowles says, gesturing at sprouts and tiny seedlings. They are bound for the Narikala Ridge and Okrokana projects—the first 87 hectares (215 acres) of the Mtatsminda Forest—which are now under construction. The power of



ABOVE AND OPPOSITE
Sketches, studies, and models (real and virtual) fill the Ruderal office in central Tbilisi.

landscape is growing, and the power of the Georgian landscape as more than a conduit for trade and production, but as a common good, is also rising.

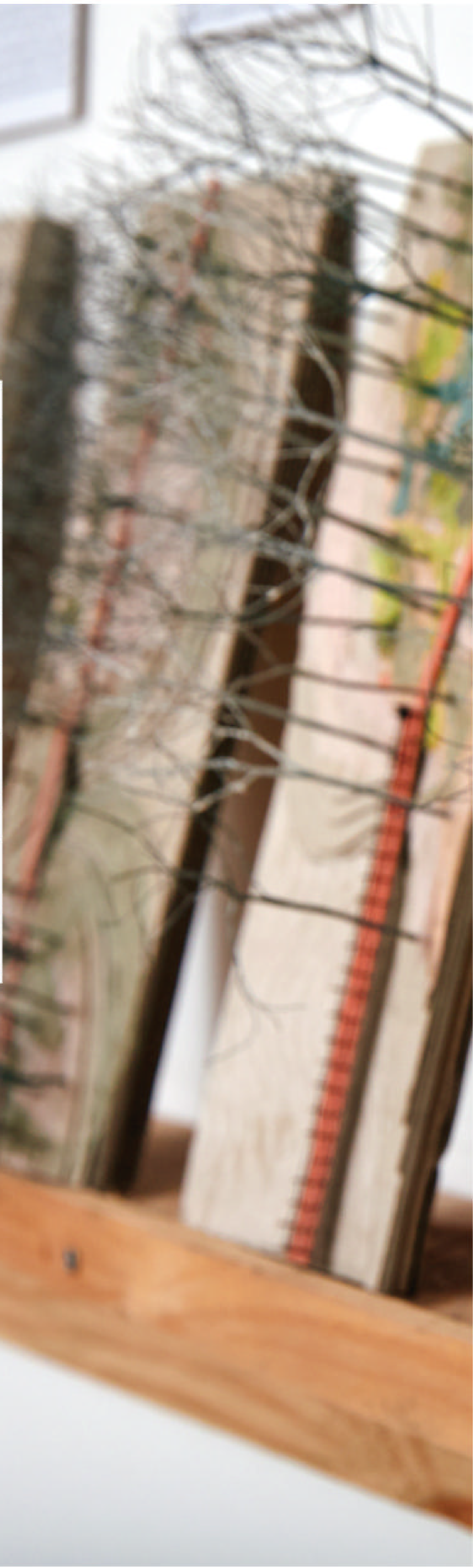
We headed to a client presentation in nearby Kakheti, one led by the U.S. Agency for International Development (USAID). First, I chatted with Vano Vashakmadze, the tourism sector lead for the USAID Economic Security Program in Georgia. Before the pandemic, Georgia had five and a half million tourists who came and spent money and stayed overnight, he says. Now, coming into recovery from the pandemic, Vashakmadze says, "Our credo in this new recovery action plan is values versus volume. Looking for high-value tourists with high economic return." The USAID Economic Security Program selected and contracted Ruderal for the development of a conceptual master plan for the Shuamta Wine Gateway, which fits this new vision for Georgian tourism. The vision is focused on three experiences: "adventure and nature, cultural heritage, and wine and gastronomy," Vashakmadze says.

Shuamta Gateway is meant to become a focal point for the tourism-friendly Kakheti wine region. The direct clients at Shuamta Gateway are the Georgian Orthodox Church, one of the most important private landowners in the country, and Badagoni Wine Company, one of the leading international-focused wine producers in Georgia. Wine and religion are old partners, and the Shuamta Gateway, as envisioned by Ruderal, capitalizes on this, situating both in an exploratory 200-hectare (500-acre) landscape of trails amid forest and viticulture.

DRAWINGS BY IVETA CHXIKVADZE/RUDERAL

FOR COWLES, RUDERAL IS ALSO A SOCIAL PROJECT TO CREATE SKILLED JOBS AND BUILD INTELLIGENCE.

Landscape Representation
Planting
Monographs
Serial Publications
RUDERAL
UNDER WESTERN SKIES
SOWING BEAUTY
OVERGROWN
GARDENS UNDER BIG SKIES
PROAP

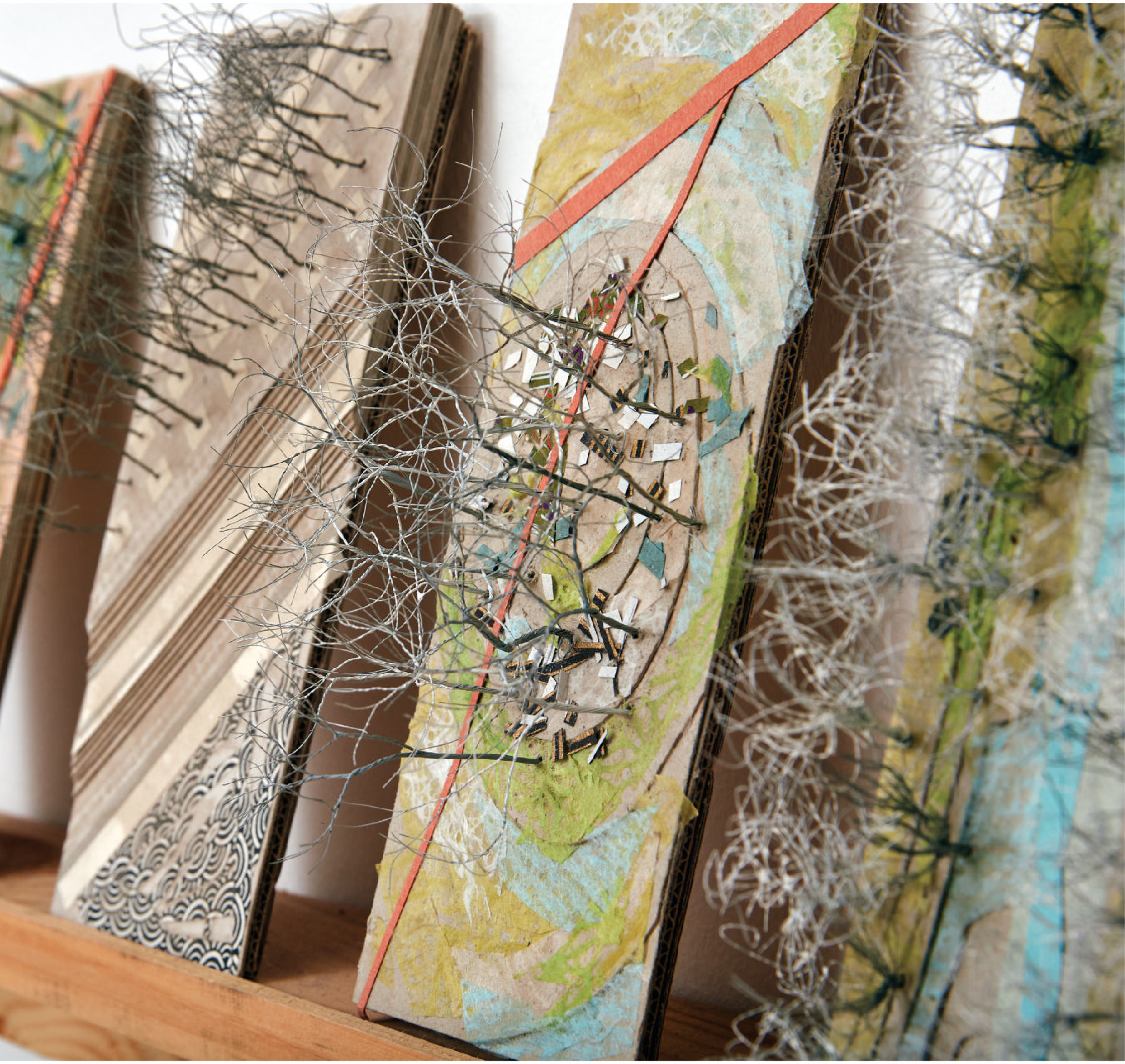


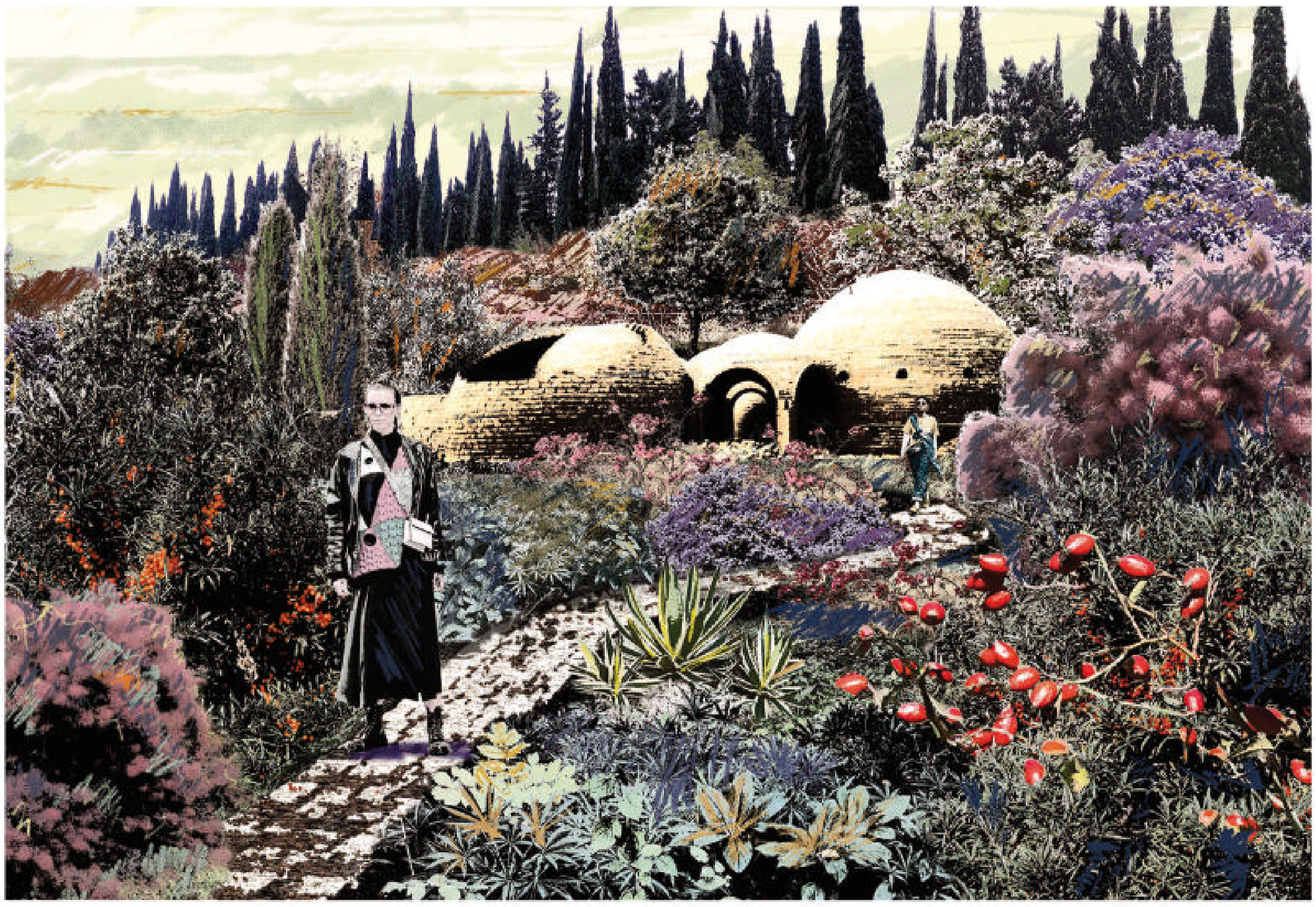
ABOVE
Giorgi Nishnianidze consults on a model with designer Ana Petriashvili.

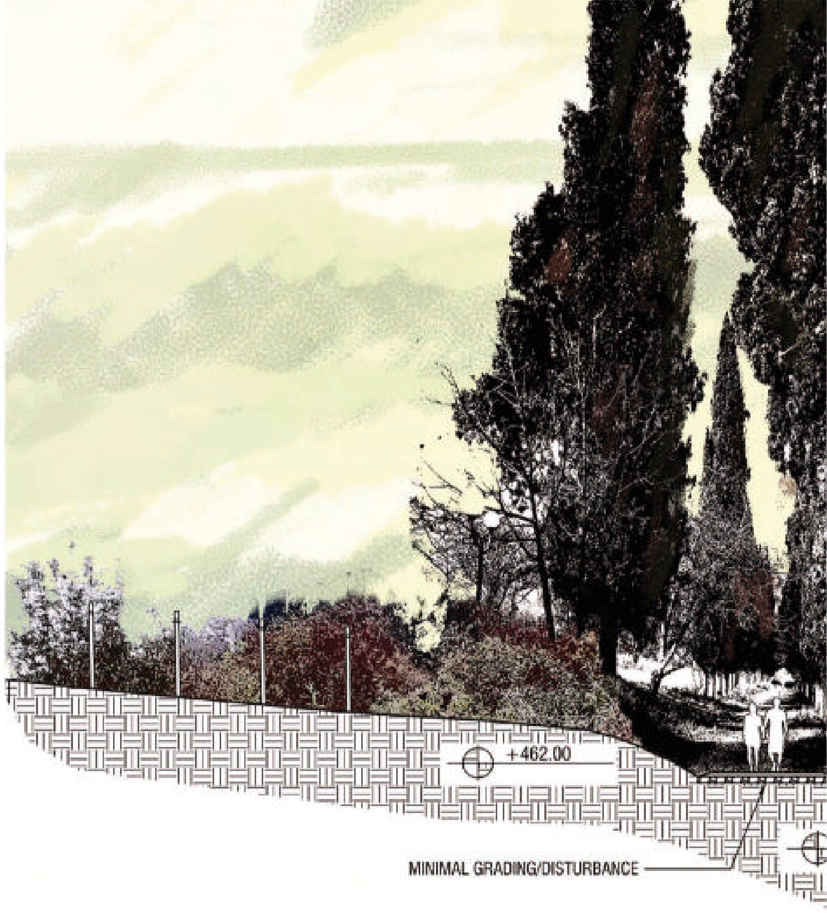
OPPOSITE
Models on display testify to the intensity of thinking, testing, and idea exchange.

When Hackenberger presented the master plan concepts to USAID and the project group, including Vashakmadze, Archbishop David of the Georgian Orthodox Church, and representatives from Badagoni, he argued for the landscape as an entity as weighty as the others at the table, religion and winemaking. Following a discussion of landscape design phasing and drawing conventions, the Ruderal team left the meeting with acceptance of their plan, but with its (eventual) realization unconfirmed.

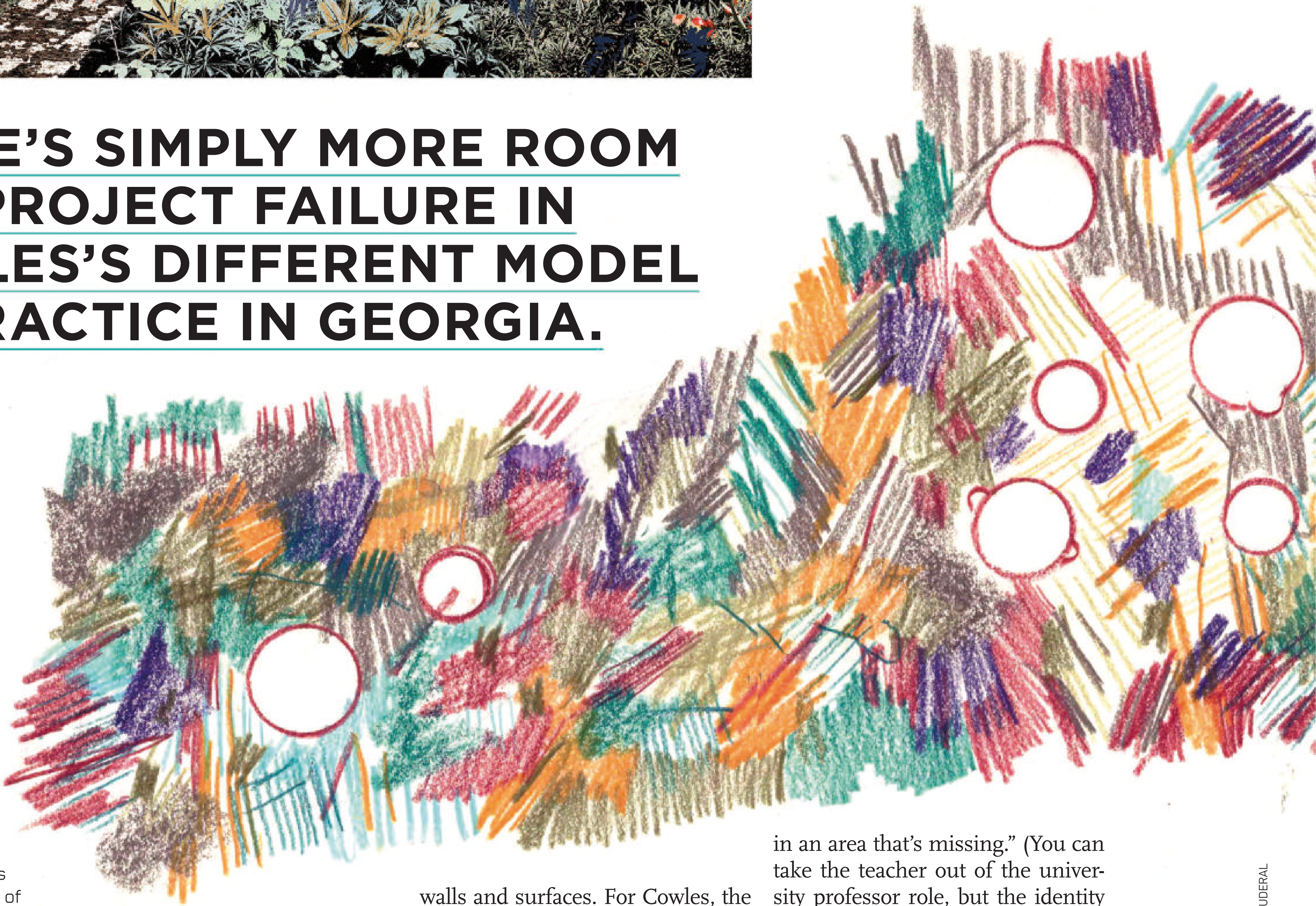
How Cowles came to start her practice in Georgia is a story that combines her long-term bond with the Caucasus region and her need for a new adventure following a short stint at an artist residency at American University of Iraq, Sulaimani. “You’ll laugh, but I ended up here after Iraq—I knew I could come back,” Cowles says. She had done a U.S. Embassy–funded project in 2010, followed by a Fulbright Scholarship in 2012, both inspired by her dad’s work in Georgia as a consultant when she was in her twenties. She and her dog Nuli—Zero in Georgian, a stray adopted during the embassy stint—shipped out of Sulaimani and hit the ground running in 2018.







THERE'S SIMPLY MORE ROOM FOR PROJECT FAILURE IN COWLES'S DIFFERENT MODEL OF PRACTICE IN GEORGIA.



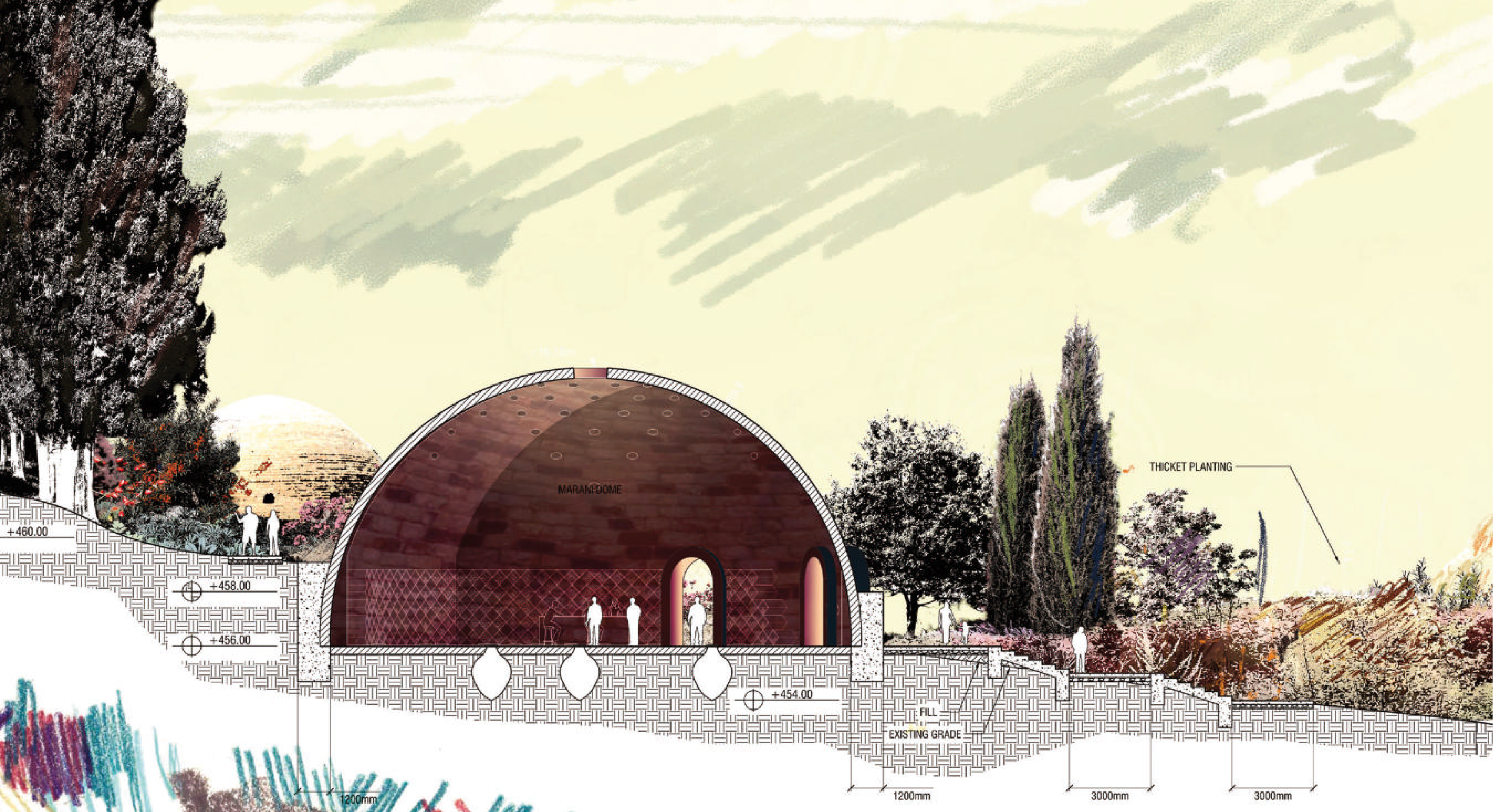
ABOVE
An example of Ruderal's playful representations.

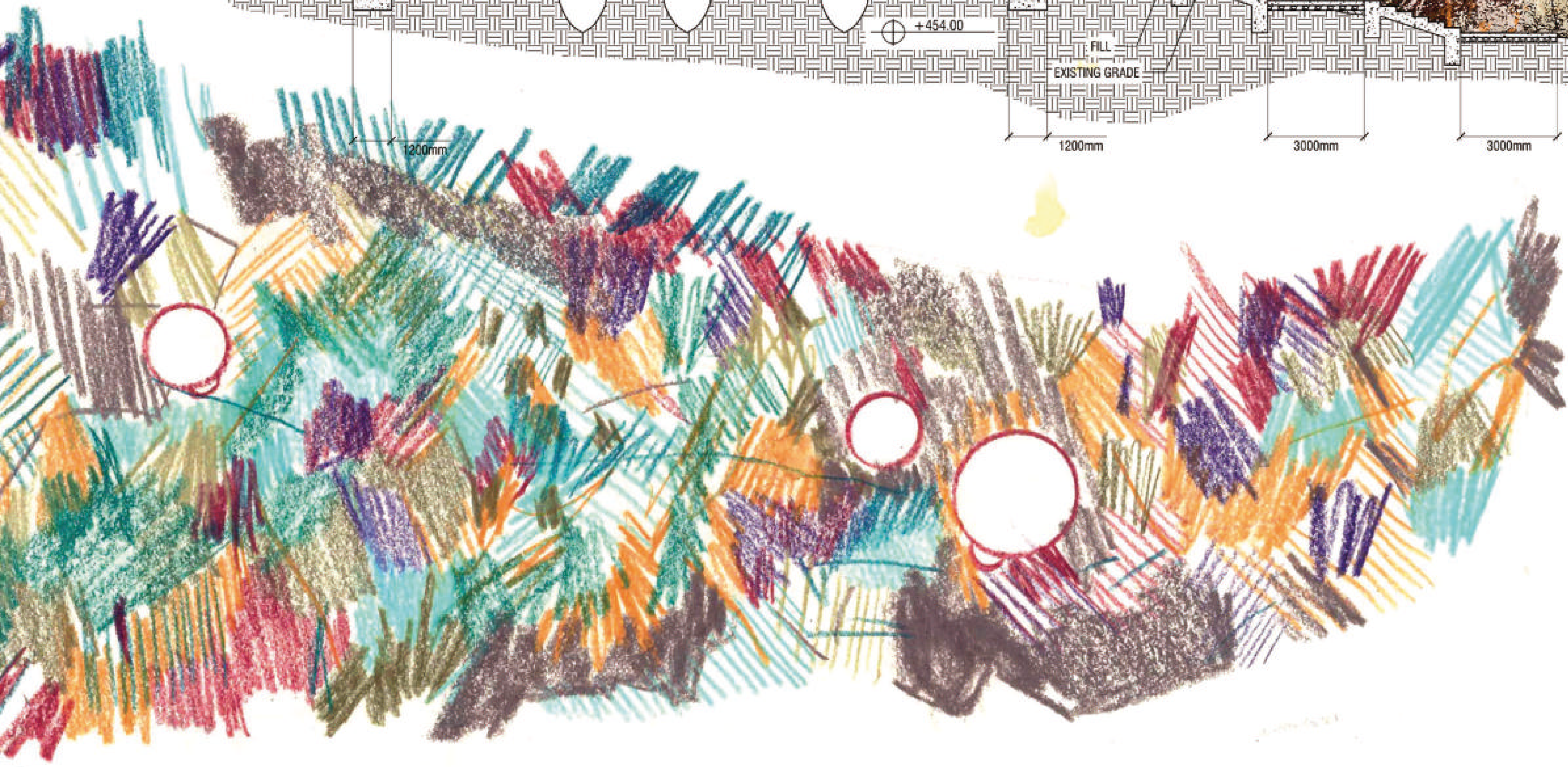
RIGHT
Colors and textures evoke the potential of the Veli site, Ruderal's first project in Georgia.

OPPOSITE TOP
A section plan for Veli, which remains unbuilt.

The Ruderal studio now numbers nine plus two interns, with everyone sitting at communal desks in a large, repurposed apartment in central Tbilisi. Beautiful models cover walls and surfaces. For Cowles, the creation of Ruderal is much more than simply setting out to do design work, but also "a social project, to create skilled, high-paying jobs that have a future, that build intelligence in an area that's missing." (You can take the teacher out of the university professor role, but the identity remains.) The upshot is that this also means that Cowles can "run a studio, just in a different way than I would have to run it in America because of the cost pressure."

SARAH COWLES, ASLA/RUDERAL





While some of the office works on local projects, others do outsourced work for other landscape offices. "Everyone can express their ideas, and there are a lot of inputs and discussions. That's the success of our method," says Nishnianidze. Tbilisi is a regional hub for outsourced, technically demanding work, from landscape architecture to blockchain. When Russia invaded Ukraine, that market increased and those able to flee with high-paying tech experience found Tbilisi an easy transition. Anti-Putin and pro-Ukrainian graffiti is common throughout the country, and rents have risen dramatically—and catastrophically for some—in Tbilisi.

A large hand-drawn plan hangs on the wall of Ruderal's office. "Veli, our first project, was something that fell in my lap the second day I was in Tbilisi in 2018," Cowles says. The drawing is part of a long-term master plan developed for the 17-hectare site. She'd arrived with a duffle, her dog, the idea to found an office—and an assignment from this magazine as income.

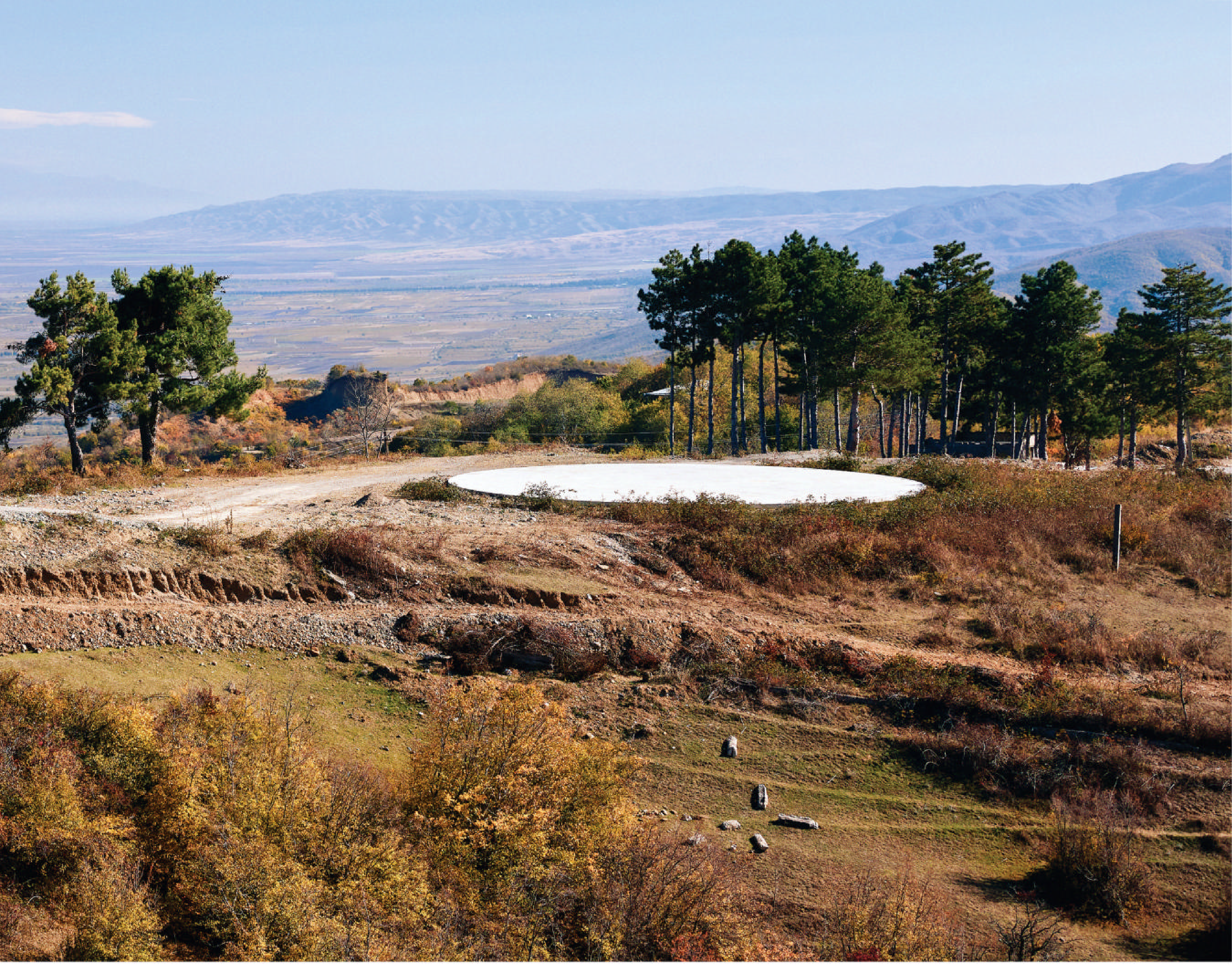
RUDERAL, TOP

OPPOSITE
The Sighnaghi Panorama Hotel project is under construction, an amalgamation of analog and parametric design writ large in the landscape.

When we toured the Veli site, once intended to be a cultural center and boutique hotel, it was clear that the project is on hold, perhaps indefinitely. On the site, the potential is obvious, amid charming crumbling buildings, with grapes planted on a gentle slope. Even before the pandemic, ambitious cultural-boutique hotel projects often crashed, and Veli is merely mothballed. Yet it illustrates that there's simply more room for project failure in Cowles's different model of practice in Georgia. The failure of a project could kill a small practice in a city like New York, but in Georgia, Ruderal can enjoy learning from it, interacting with its potential and the roots of the practice.

A half-hour drive away in Sighnaghi, we toured another Ruderal project for a very different kind of hotel—the kind of five-star megaproject that does indeed get built. The Sighnaghi Panorama Hotel sits on a ridge above the historic monastery of Bodbe, dating from the 9th century. Ruderal was hired by the project manager to "re-engineer" the site, including a landscape plan with program, planting, and complex grading. The vantage point is impressive, and the hotel is of an international standard, an enormous whale beached in the sky.

Unlike the dormant Veli, construction in Sighnaghi was underway in fall 2022 when I visited, with a major landform completed, along with roads, drainage, and, of course, the requisite five-star-hotel helipad. The drawings show the dense texture of



plantings to come, and small decks hidden among the ridge-side pines. The landform, named "Sky Beach" by Ruderal, was designed partly by hand and partly in Grasshopper, bringing a parametric regularity; the whole then translated on-site using spot grades by the contractors. "The benefit of doing both at the same time is that you can then take the shortcuts by understanding what the limits are," Hackenberger says, summing up more than Ruderal's approach to grading. It is easy to imagine how Ruderal's design will grow into its context once the project is completed later this year.

Back in Tbilisi, I parted ways with Ruderal, keen to see part of the trade flows and infrastructure in the Caucasus. I head up the Georgian Military Highway just short of the Russian-Georgian border, to Kazbegi. The ride is hair-raising, as the narrow mountain highway winds north, full of chaotic truck traffic and steadily gaining altitude. A Belt and Road tunnel project now underway will ease congestion on this essential trade conduit somewhat—and seeing license plates from Azerbaijan, Uzbekistan, and even the European Union (sanctions do allow some traffic to pass), its importance geopolitically is evident.

I arrive in Stepantsminda, at the foot of the sublime 5,000-meter peak Mount Kazbegi (16,500 feet). Following the USAID trifecta for high-value tourism, the village has the stylish Rooms Hotel Kazbegi, an anchor of luxurious alpine adventure, food, wine, and culture.

AVAXHOME-

the biggest Internet portal, providing you various content: brand new books, trending movies, fresh magazines, hot games, recent software, latest music releases.

Unlimited satisfaction one low price
Cheap constant access to piping hot media
Protect your downloadings from Big brother
Safer, than torrent-trackers

18 years of seamless operation and our users' satisfaction

All languages
Brand new content
One site

AVXLIVE.ICU

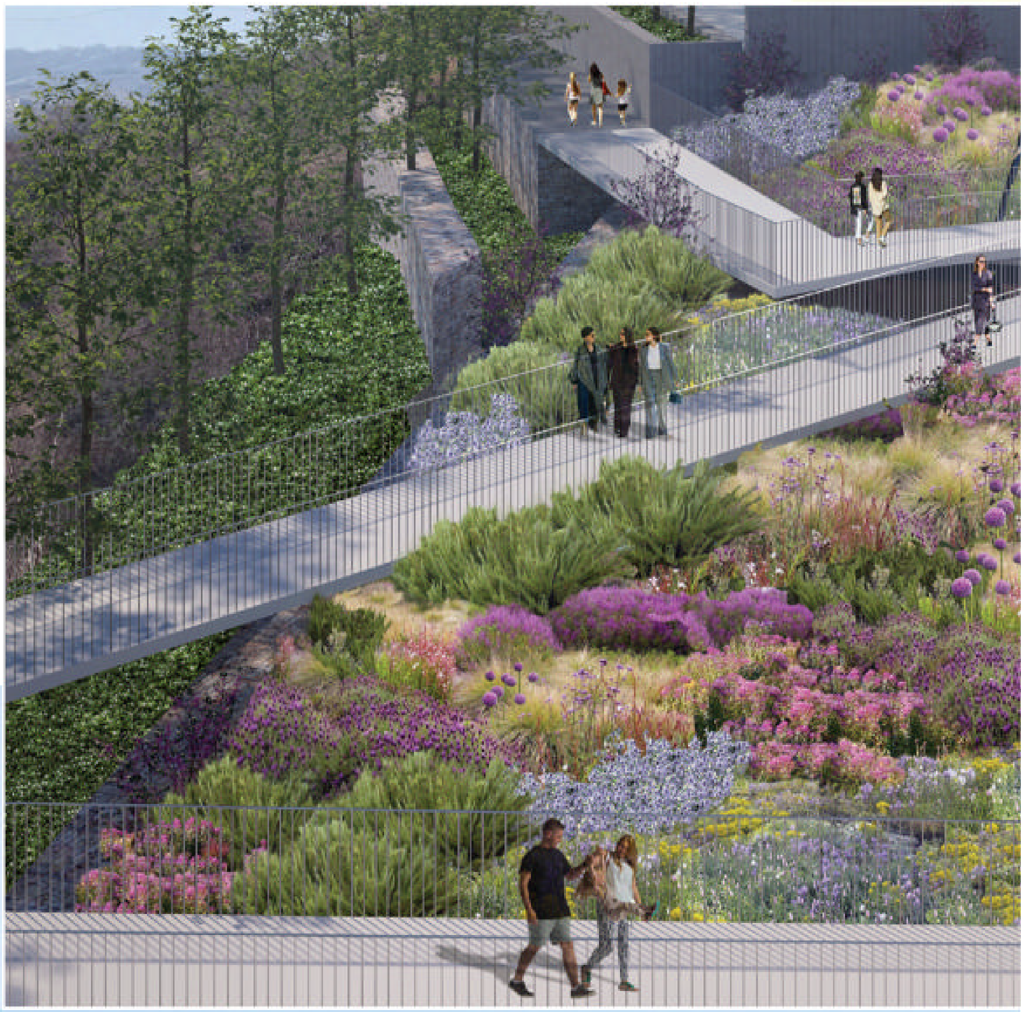
AvaxHome - Your End Place

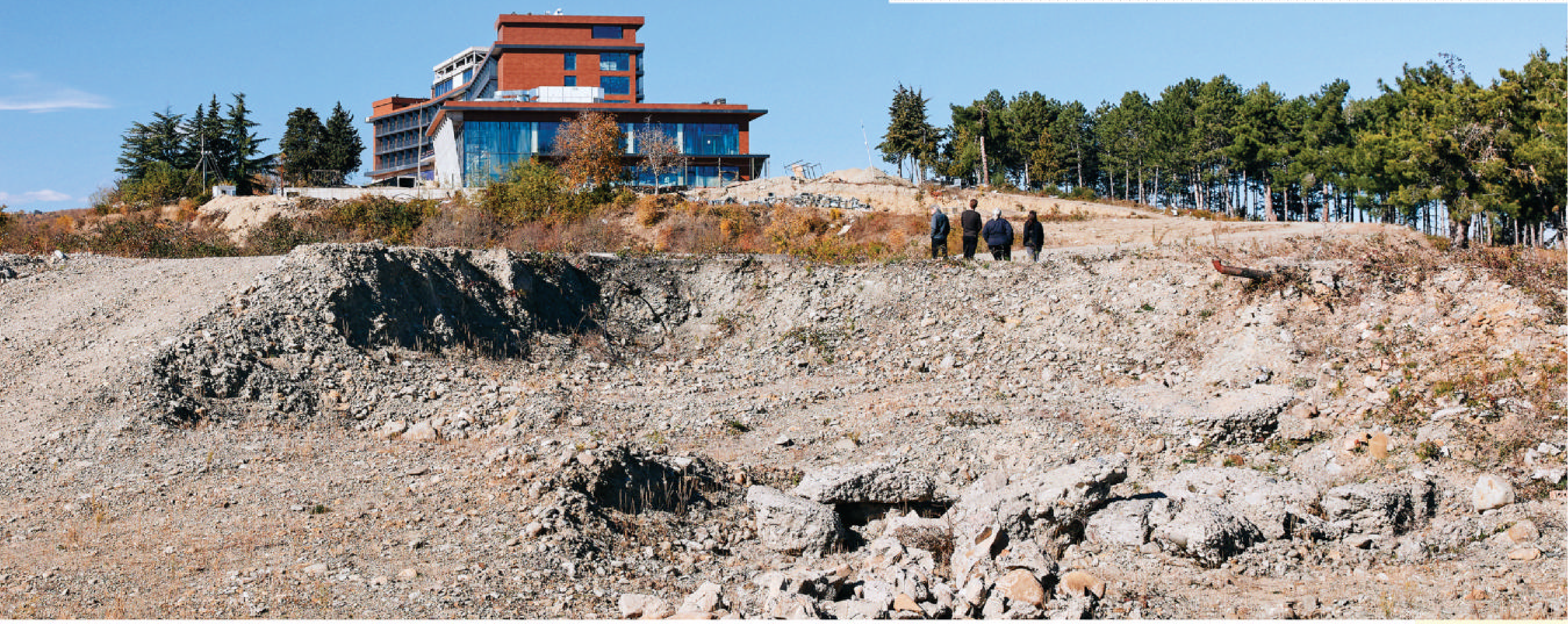
We have everything for all of your needs. Just open https://avxlive.icu

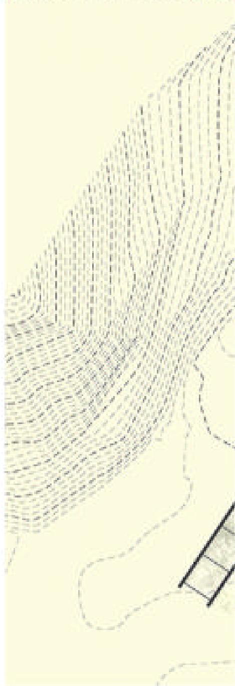
BELOW
The sweep of the Sighnaghi site is crowned by a hotel, primed for landscape tourists.

RIGHT
The plan reveals landforms, planting, and delicate forest interventions.

OPPOSITE
The linear site unfolds and concentrates experience through the built, the planted, and the terrained.



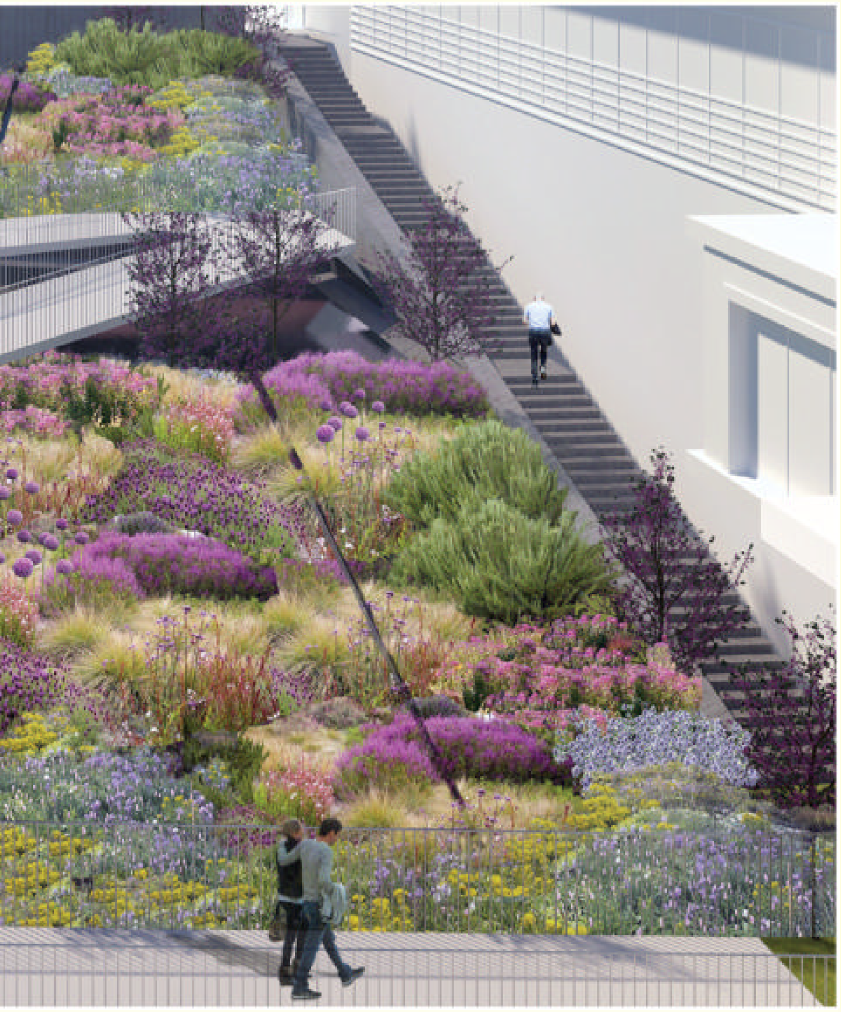


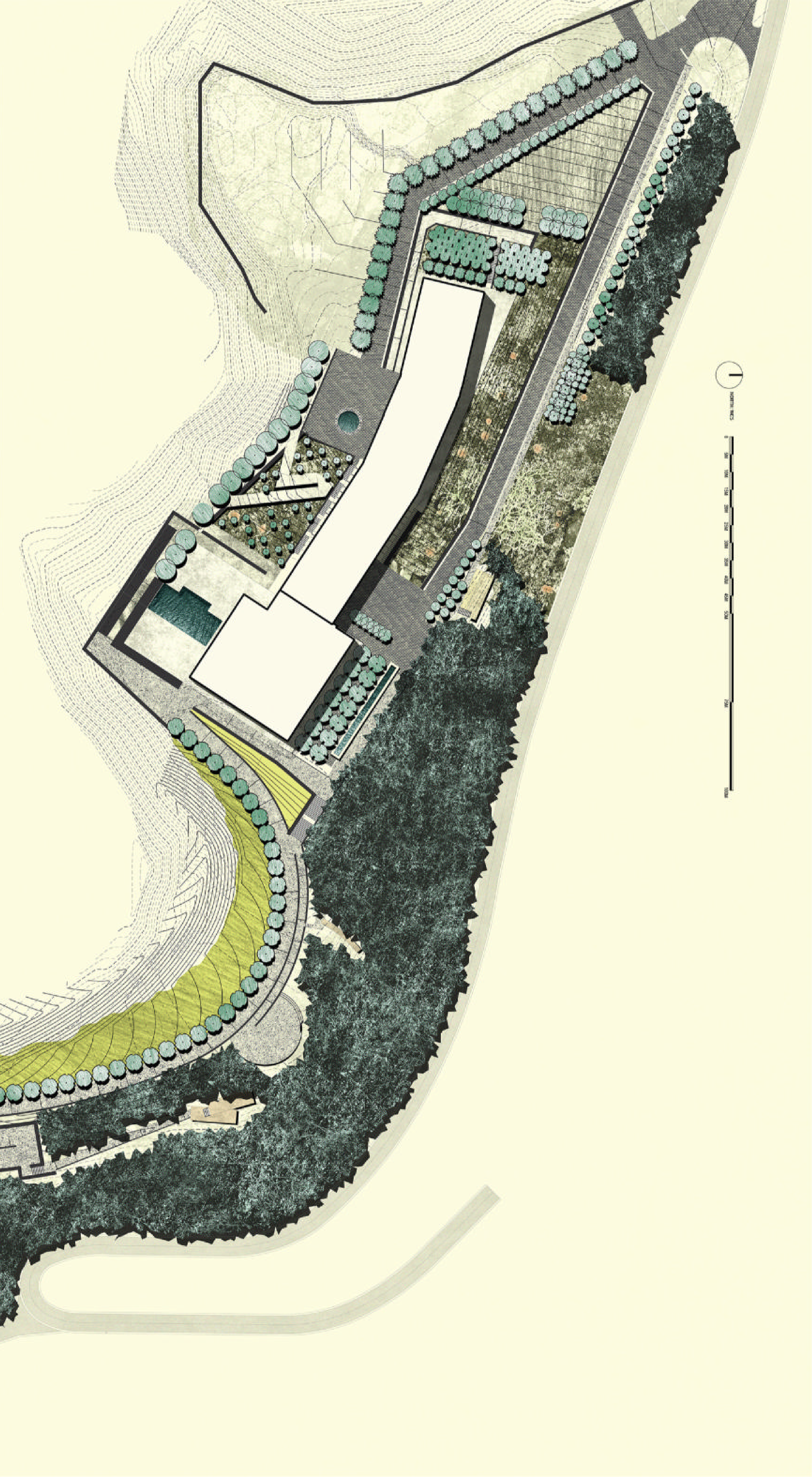


RUDERAL, TOP

While remote seeming, major traffic passes through, and the area is ground trodden by landscape architects before: The Gudauri Ski Resort is nearby, designed in majority by Paul Mathews and Ecosign, a Canadian landscape office responsible for many ski areas worldwide (see “Head for the Hill,” *LAM*, January 2020). A succession of Georgian prime ministers has promoted and supported the development of Gudauri and Kazbegi, both clearly national priorities in developing Georgia’s international potential—and powerful landscape.

“We’re now more known as an international studio active in the region,” Cowles says, stressing the role that word of mouth and publicity play in Ruderal’s growth. Good relationships with NGOs, local architects, and developers are part of it, as is participation in regional





RUDERAL, TOP LEFT; SARAH COLEMAN/RUDERAL, RIGHT

“WE’RE NOW MORE KNOWN AS AN INTERNATIONAL STUDIO ACTIVE IN THE REGION.”

—SARAH COWLES, ASLA

competitions, stretching from the Caucasus to Eastern Europe and the Baltics. Ruderal also publishes and participates in international media, events, and forums, reaching out from Georgia as it embeds itself within.

As Cowles adventures further into the wild, wild west of Georgia’s landscape-driven international development, Ruderal gets deeper in the reality on the ground, in all its tourism-driven, developer-funded, NGO-engaged mix of terrible and glorious. Many designers avoid this unglamorous, common reality of actual development and global practice, losing the world to stay in the confines of the safe, and dream of idealized projects. In contrast, Cowles is out on the range, getting things done. ●

JESSICA BRIDGER IS AN URBANIST, JOURNALIST, AND CONSULTANT BASED IN SWITZERLAND.

BELOW
Of the decision to start a landscape architecture firm in Georgia, Cowles says, "There's no market—but there's also no competition."

GRASSPAVE^2

GRAVELPAVE^2

There Is No Equal

Strength

- The Strongest Porous Pavers Available
- Over 15,940 psi Compression Strength
- Exceeds H25 Loading

Performance

- Performs in Severe Weather Events
- Most Rapid Drainage Available
- Fastest and Easiest to Install
- Lasts a Lifetime

Trusted

- The Best Customer Service
- Over 100 Million sq ft Installed
- America's Favorite Paver Since 1982

INVISIBLE STRUCTURES™

Invisiblestructures.com/why
(303) 233-8383

INVISI-LUG™ – NEW RELIEVED LUG PAVERS
PATENT PENDING

Paver Color: Dark Ironspot

YOU ASKED
WE DELIVERED

The new Invisi-Lug™ paver from Endicott delivers what you've been asking for: a square-edged design with hidden lugs for easier installation, a crisp clean look and no chippage. Make your unique hardscape vision a reality with the help of this patented new design.

FACE BRICK | THIN BRICK | CLAY PAVERS

ENDICOTT
INVISI-LUG™
CLAY PAVERS

BUILDING LEGACIES FROM THE GROUND UP

endicott.com

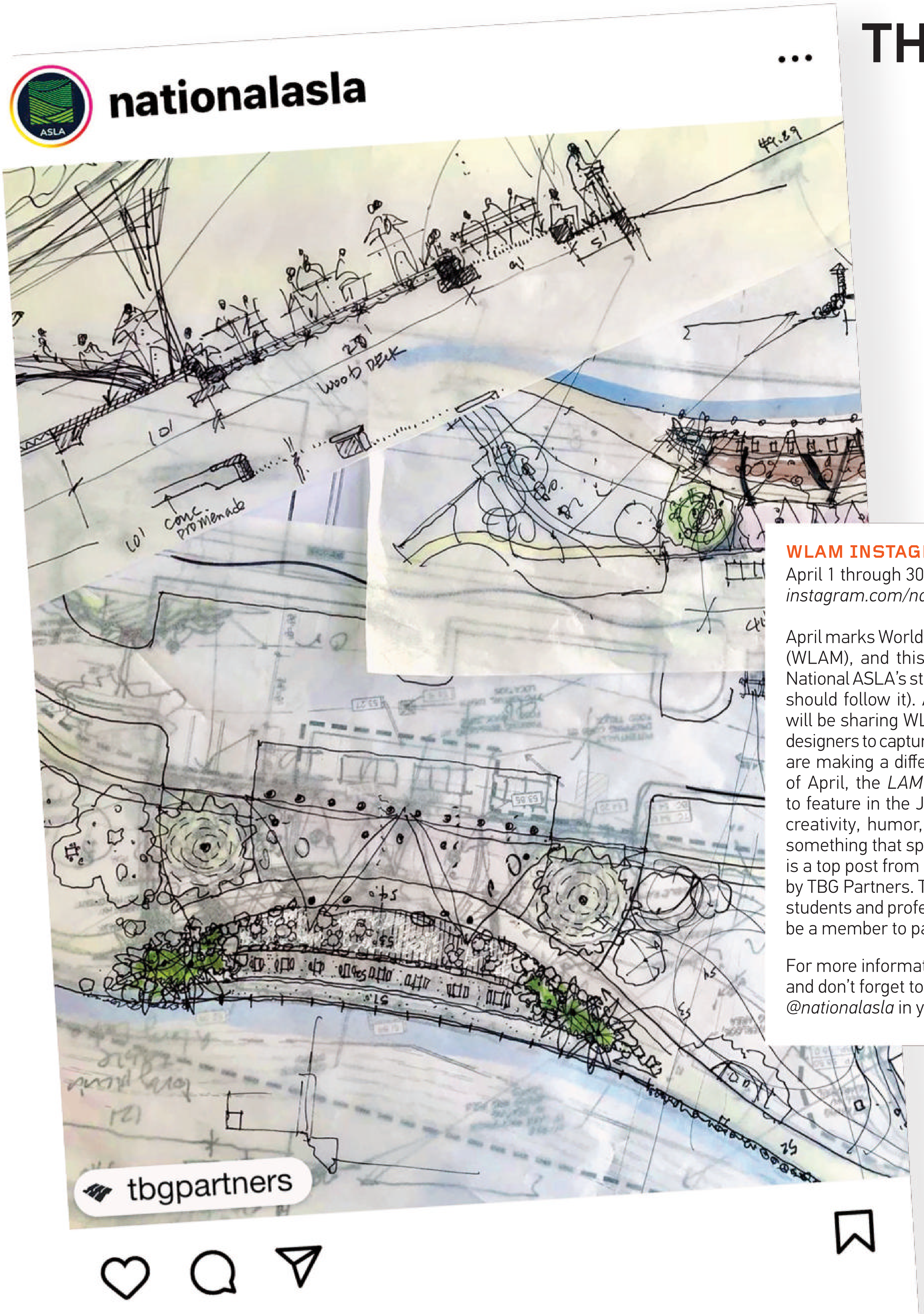
THOMAS STEELE
BY Graber Manufacturing, Inc.

"Site Furnishings Crafted to Weather Every Season"

MADE IN WAUNAKEE

800.448.7931 | Site Furnishings - thomas-steele.com

THE BACK



TBG PARTNERS

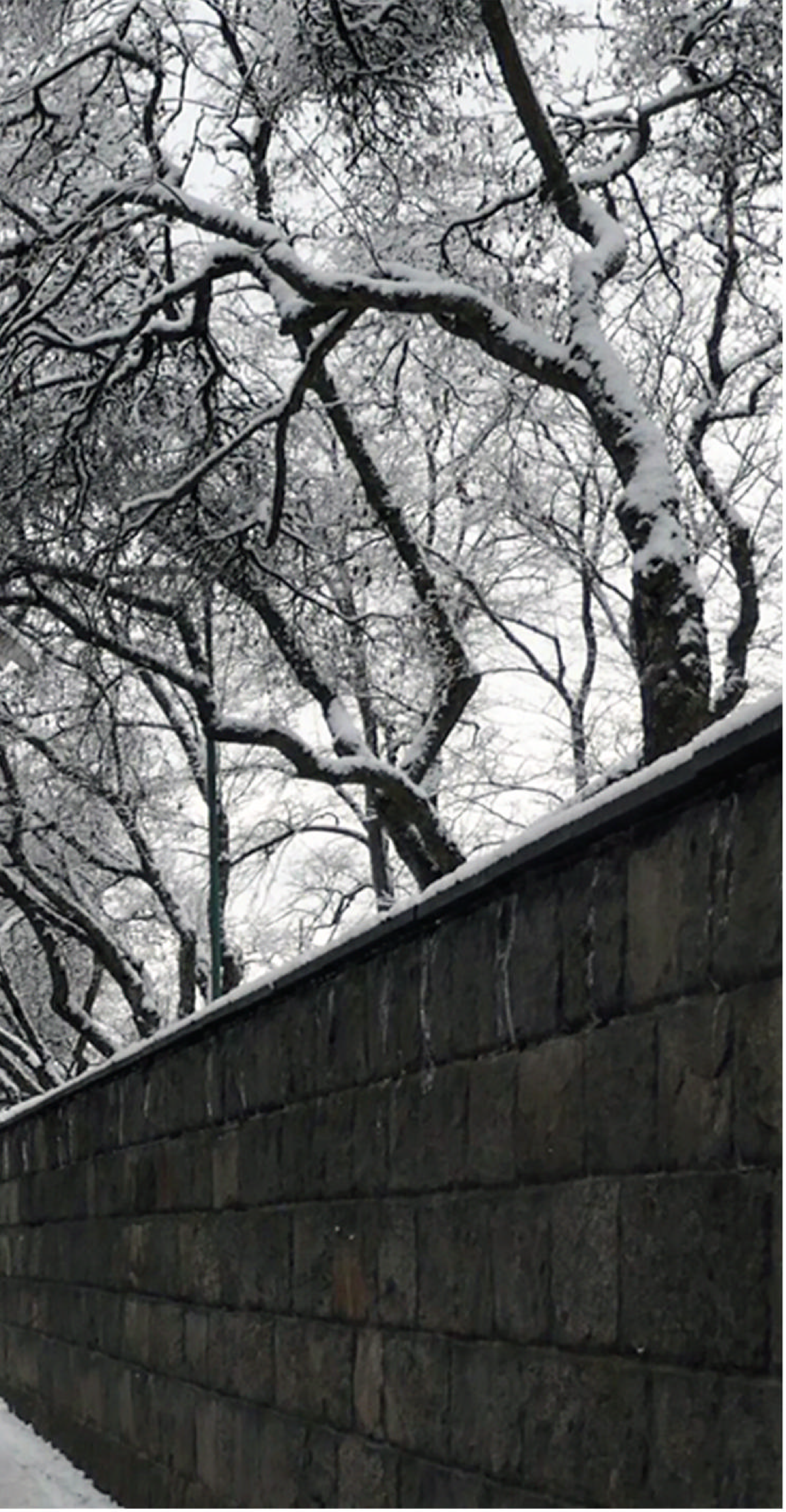
WLAM INSTAGRAM COMPETITION
April 1 through 30
instagram.com/nationalasla

April marks World Landscape Architecture Month (WLAM), and this year *LAM* is pairing up with National ASLA's stellar Instagram feed (really, you should follow it). All month long, *@nationalasla* will be sharing WLAM prompts and encouraging designers to capture the ways landscape architects are making a difference in the world. At the end of April, the *LAM* team will choose one image to feature in the June issue; we'll be looking for creativity, humor, depth, or simply that certain something that sparks our curiosity. Shown here is a top post from *#WLAM2022,* a process sketch by TBG Partners. The competition is open to both students and professionals, and you don't have to be a member to participate.

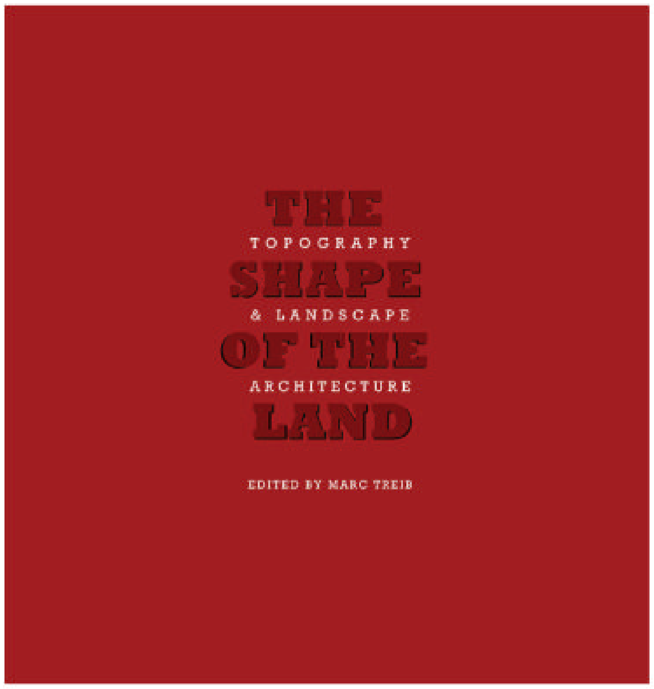
For more information, visit *asla.org/WLAM2023,* and don't forget to tag *#WLAM2023* and *@nationalasla* in your snaps.

TEN TOPOGRAPHIC ACTS

PHOTOGRAPHY AND TEXT BY
MARC TREIB, HONORARY ASLA



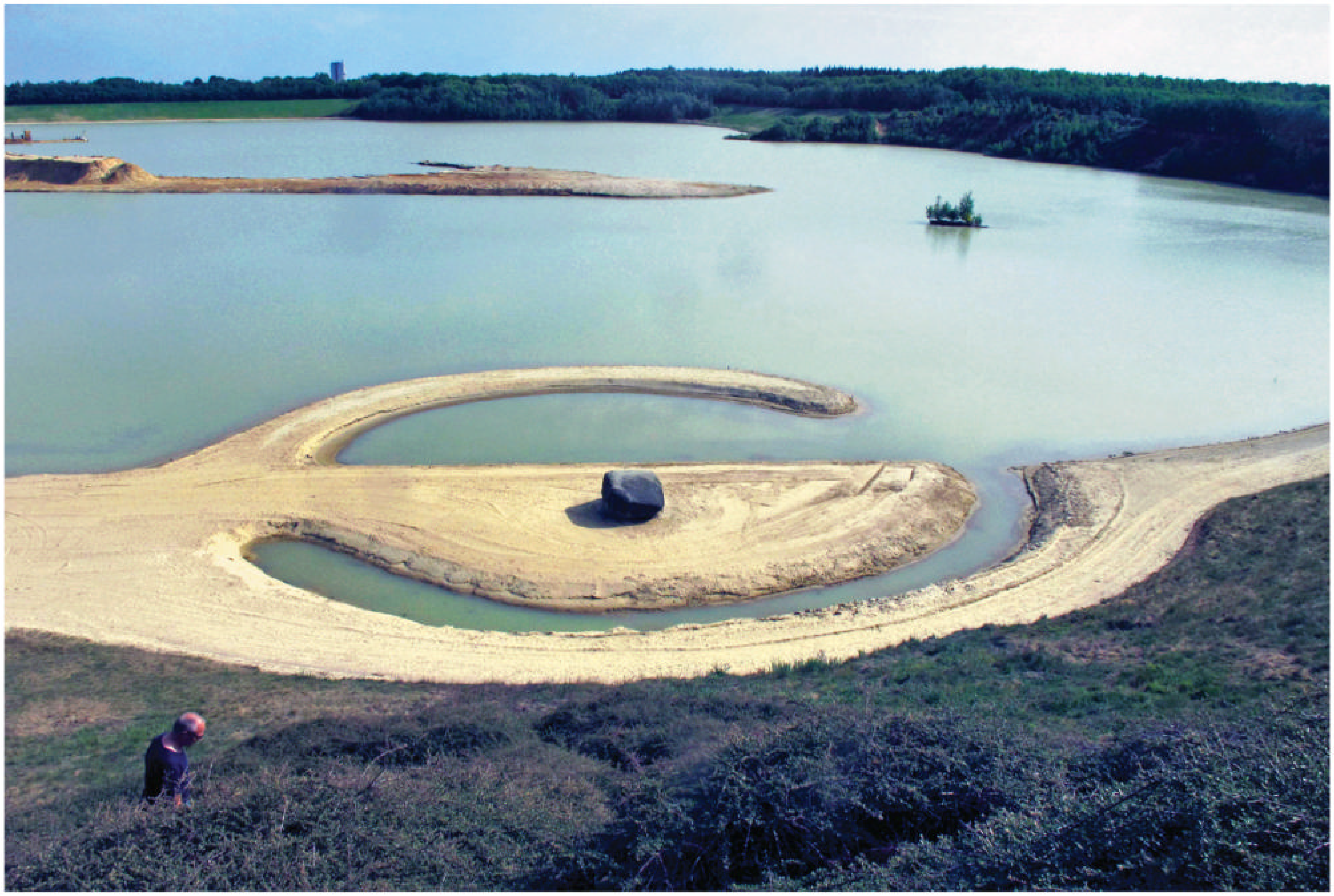
MAJ WETTERSTRAND



THE
TOPOGRAPHY
SHAPE
& LANDSCAPE
OF THE
ARCHITECTURE
LAND

EDITED BY MARC TREIB

The essays in *The Shape of the Land: Topography & Landscape Architecture* originated in a symposium held at the University of California, Berkeley, on the very cusp of the pandemic. Paired with its predecessor publication, *The Aesthetics of Contemporary Planting Design,* it gathers current research in land formation. This essay from the book brings the reader's attention to primal acts of topography that shape landscape experience.

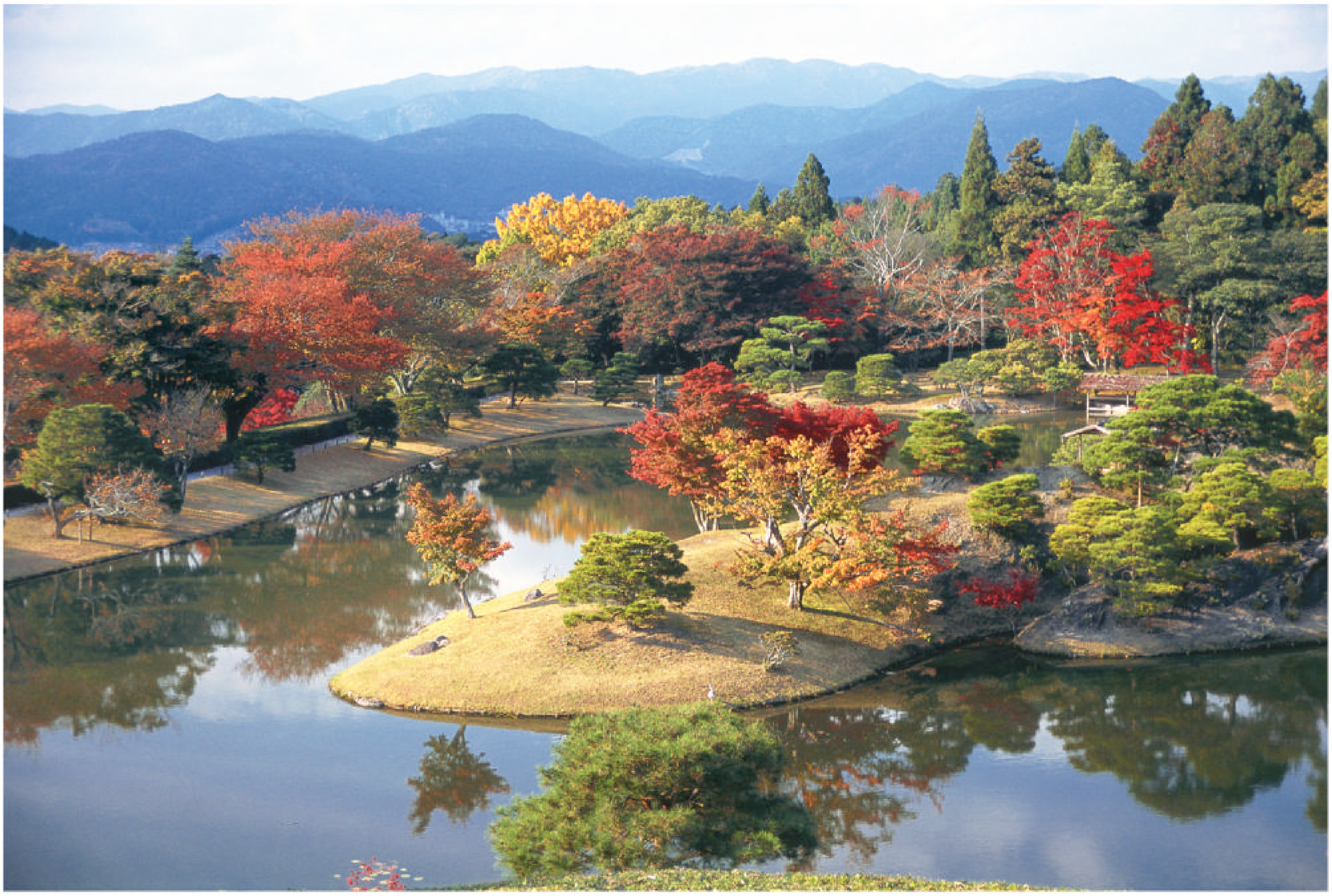


Broken Circle, Spiral Hill
Emmen,
Netherlands
1971
Robert Smithson

The practice of "cut and fill" transforms topography by removing soil from a rise to fill a depression or level a slope. Ideally, by balancing extraction and deposit all soil remains on-site. In 1971, on the grounds of a sand and gravel quarry in the eastern Netherlands, artist Robert Smithson employed this practice to create an earthwork using only materials found on-site.

Believing that sufficient land had already been despoiled by construction and habitation, and with a predilection for interacting with disturbed terrain, Smithson rejected the offer of a park site for his participation in the 1970 Sonsbeek sculpture exhibition. Instead, Smithson chose a functioning quarry with a residual pond at its heart. His work would comprise two elements: one engaging the water on the quarry's northern shore, the second piled on the bank adjacent to it.

From a small peninsula that jutted into the pond, Smithson removed sand and gravel to isolate a spit of land shaped as the arc of a circle. From the bank, he dug a narrow canal with a corresponding curve. The resulting circular figure interlocked land and water in a positive/negative arrangement incorporating the opposition of forces represented by the yin/yang of Chinese philosophy. A rare erratic boulder, the product of the terminal moraine by which much of the Netherlands has been shaped, was appropriated as the center of Smithson's circle.

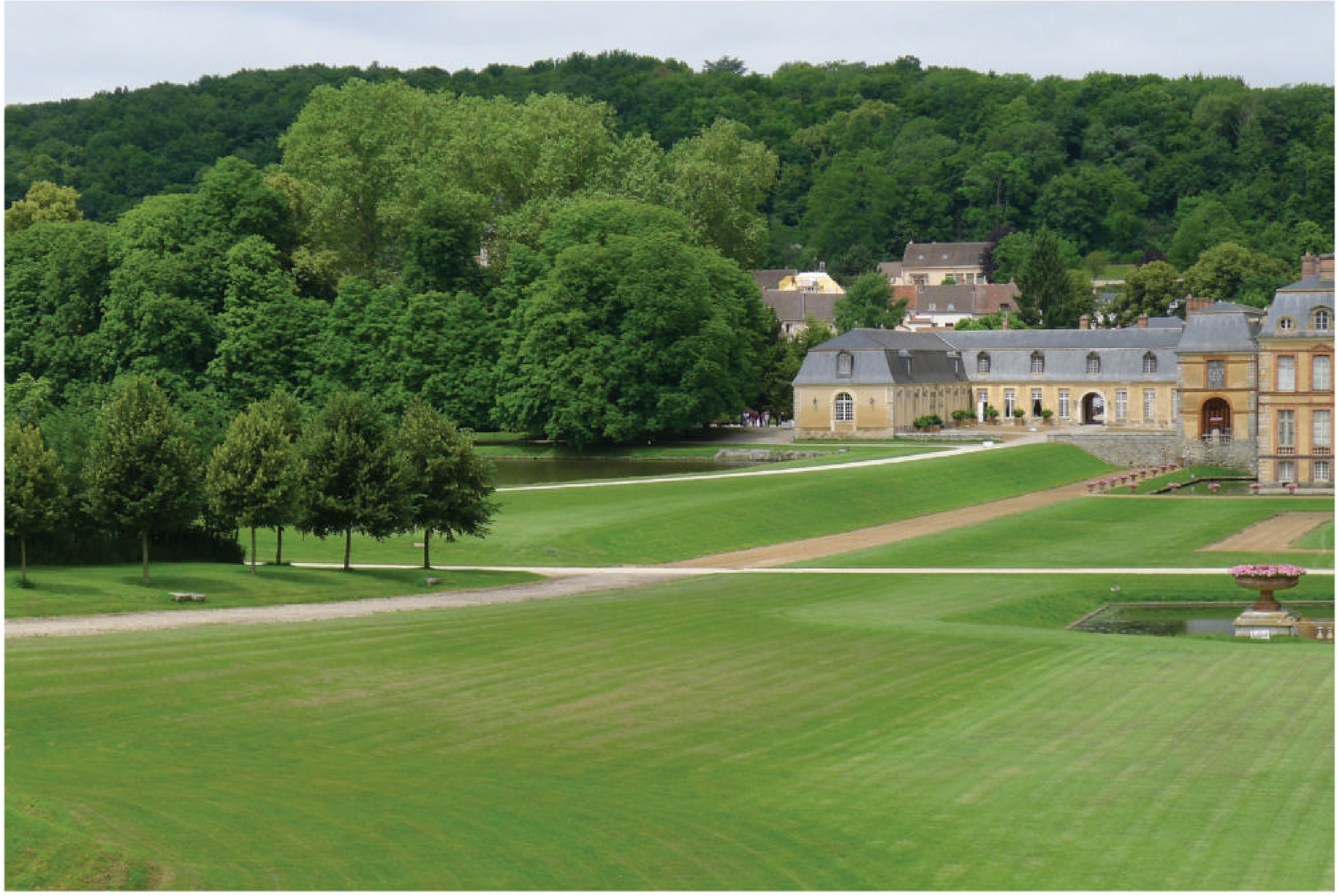


Shugaku-in Imperial Villa

Kyoto, Japan
1660s–
Emperor Gomizuno-o and artisans

Walking along the road to the upper garden of this grand imperial landscape, the progression of views of the rice fields seen through the pine trees flickers past almost in the manner of a zoetrope. To the left of the road stands a giant wall of vegetation that at first view appears native to the hillside. In fact, the hedges disguise a major earthwork: a gigantic dam constructed to retain the water of the ornamental pond at the heart of the villa's upper garden. Well-constructed, the dam has endured for over three and a half centuries, requiring only periodic repair. The use of "hide and reveal," a dramatic sequencing of views and features, heightens the effect of reaching the upper terrace, where a grand panorama of the garden and northern Kyoto is revealed.

The stepped hedges stabilize the soil while camouflaging the fabricated origins of the hillside dam; configured in stages, their forms diminish the sensed enormity of the venture. The mature trees that punctuate the lines of the hedges trace the passage of the seasons. In autumn, the maples are radiant with warm, almost flaming colors, and perhaps at this time the garden offers its most stunning effect. But the vegetation is also beautiful in other times of year, when wearing only varying shades of green. The garden at the Shugaku-in Imperial Villa is spectacular in many ways, but few of them would have been possible without the sizable modification of the existing hillside topography.



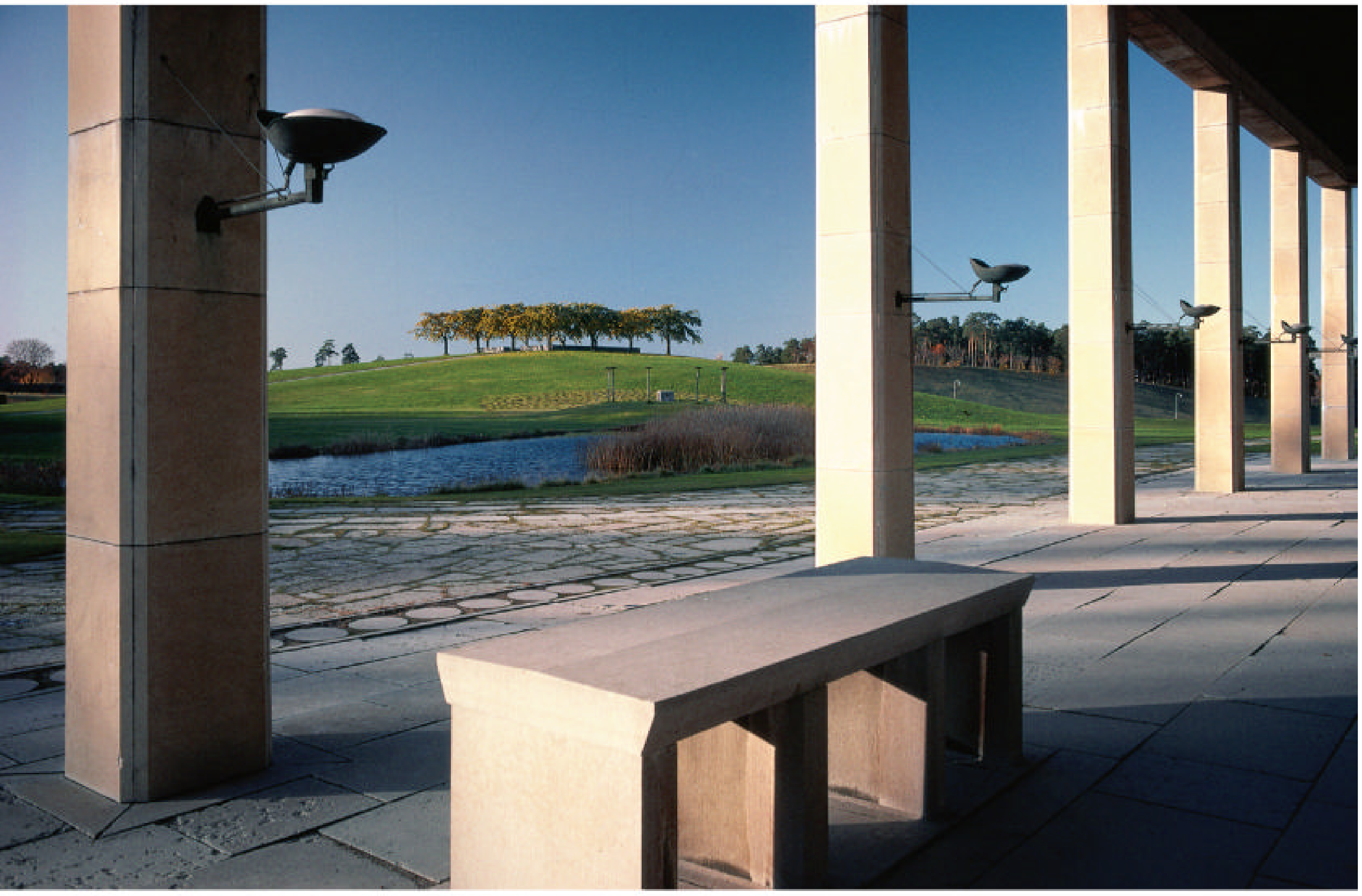
Domaine de Dampierre

Dampierre-en-Yvelines, France
circa 1680s
André Le Nôtre (attributed)

In the early 1570s, Androuet de Cerceau published the château and grounds of Dampierre in his *Les plus excellents bastiments de France,* a landscape whose small river had been transformed into an imposing *pièce d'eau* by damming and reshaping its banks. A moat surrounds the château and its attached garden on all four sides, accompanied by a garden of much larger dimensions neatly divided into squares, each different in figure and planting. Extending to the southwest, withheld by a large dam that spans the valley, is a formally shaped lake that serves as both ornament and recreation ground.

Some credit André Le Nôtre with the complete reworking of the old terrain around 1683 to better accompany a new, more modern château designed by Jules Hardouin-Mansart. The existing structures, garden, and terrain provided the framework for the new plan, although Mansart's much larger château straddled the north bank of the lower zone, today left dry. In turn, Le Nôtre's gardens extended southward across the valley, rising with the terrain on the opposite bank—an audacious reorientation of the historical plan and gardens. Although the historical gardens, still surrounded by channels of water, retain their shape, the richness of their original plantings has disappeared. The lake has been further regularized, and probably extended, to assume the form of a more purely shaped dog bone.

There is little doubt that realizing the first and subsequent designs of the Domaine de Dampierre involved significant efforts to move earth that redirected and reshaped water. The resulting terrain of solid and liquid both acknowledged and confronted the natural contours, while demanding the expenditure of enormous resources both human and technical. Lacking extensive vegetation, the domaine one encounters today grants the revised topography heightened prominence and even greater lucidity.



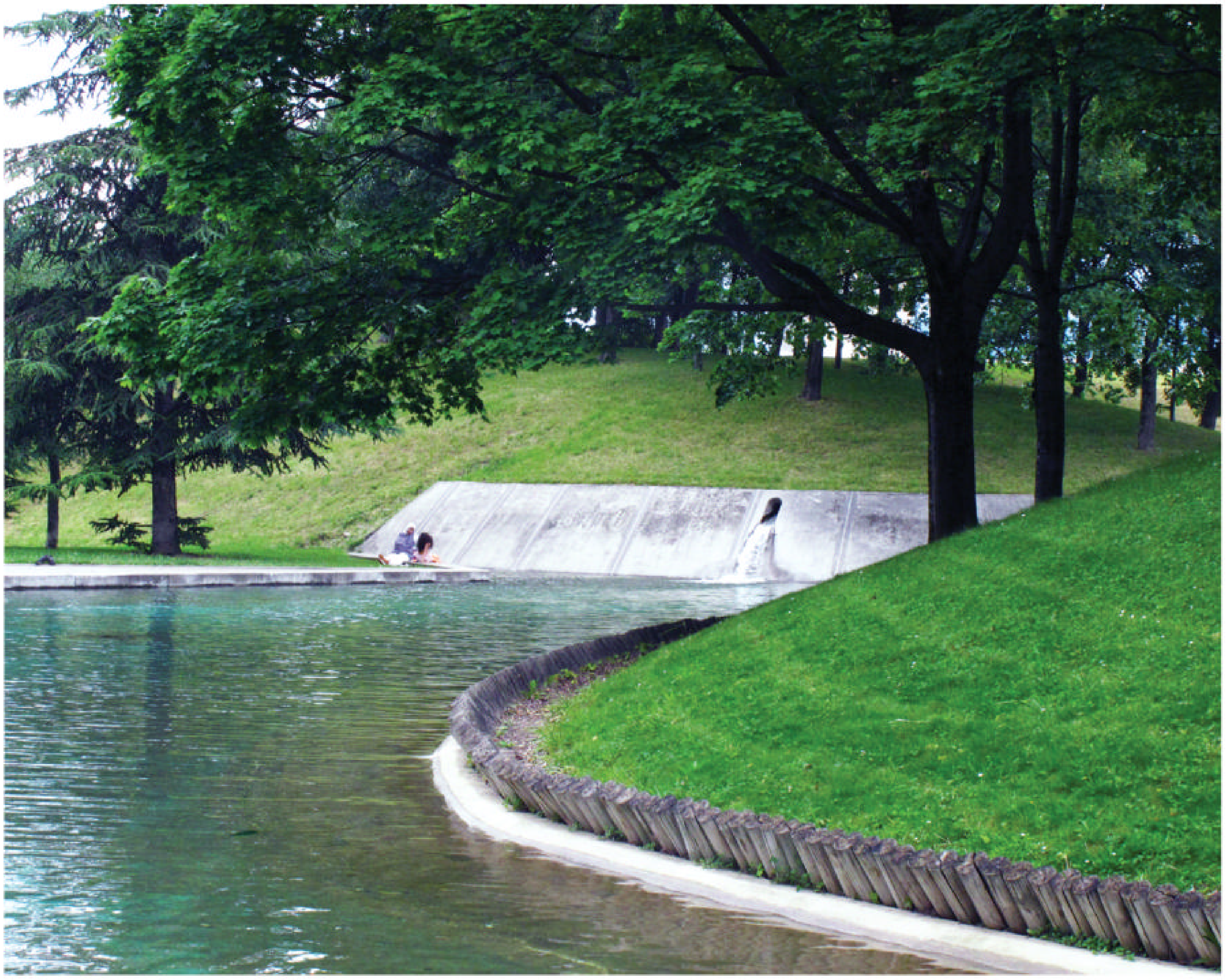
Woodland Cemetery [Skogskyrkogården]

Enskede, Sweden
1915–40
Gunnar Asplund and
Sigurd Lewerentz

The design that won the 1915 competition to extend the South Stockholm Cemetery was dominated by a forest of trees that blanketed the site. From this continuous green canopy, clearings were cut to serve as the sites for the clusters of graves and the principal chapels. The land was neither pristine nor agricultural. Although originally formed as a terminal moraine, decades of gravel mining had significantly modified the primal contours. The winning competition entry by architects Gunnar Asplund and Sigurd Lewerentz positioned the main chapel on the site's highest point and graced it with a small plaza that in plan recalled the Piazza San Marco in Venice. While basically positive, the jury expressed its reservations concerning vehicular movement through the cemetery and the potential monotony resulting from a continuous cover of leaf and needle. Rethinking was necessary.

In revising their scheme, Lewerentz and Asplund first reworked the ground plane to better support the choreography of movement and spatial progressions, deftly employing compression and release as their primary tool. Entering the cemetery grounds from the street, mourners and visitors traverse a semicircular exedra, then squeeze through a narrow space bounded on both sides by granite walls. Beyond these walls, the space dramatically opens into a great void that joins meadow and memorial knoll with the sky and clouds above. The modeling of the terrain is masterful, with the meadow flowing softly from the processional path at its northern edge to the memorial knoll to the south. From within the garden for urn burials, the view over the wall is unimpeded visually and psychologically bonded to the greater cemetery landscape.

The memorial knoll occupies the site originally assigned to the main chapel. Viewed from the summit of the knoll, the line of three chapels reads as an architectonic retaining wall that halts the incursion of the pine forest into the meadow. At its foot lies a small pond that collects rainwater, snow melt, and seepage that varies in size with the weather and the time of year. Its surface reflects the sky and knoll and doubles their presence. While many other features of the cemetery landscape are worthy of note—the extensive forest and the quality of the architecture, among them—at its base, literally and figuratively, is the ground in or on which the cemetery's ceremonies and practices are enacted.

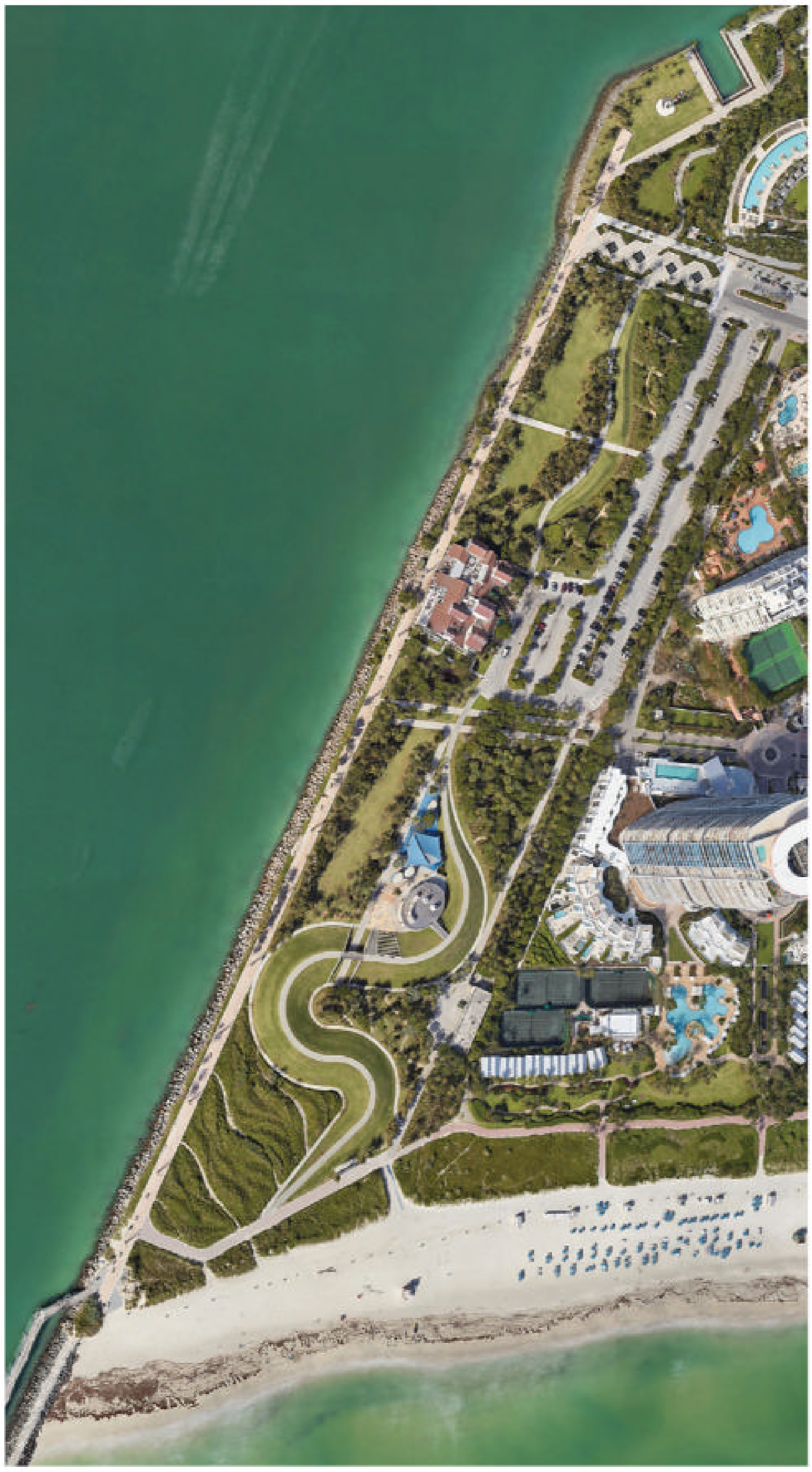


Parc Jean Verlhac
Villeneuve-de-Grenoble,
France
1973
Michel Corajoud

A year after successfully hosting the Winter Olympics in 1964, the city of Grenoble embarked on a project to construct 2,000 units of much-needed housing. Two years later, landscape architect Michel Corajoud and architects Henri Ciriani and Borjo Huidobro were commissioned to design the 50-acre park to accompany the new housing. Rubble from the site and from excavating the foundations of the buildings yielded a considerable volume of spoil, materials Corajoud wisely and economically sculpted a landscape of rises, hills, vegetation, and water.

The forms of this new, earthen landscape are hardly mere bumps in the terrain. Quite the contrary: they stand as geometricized hills, most of them circular in plan and graded into shallow hemispheres that at their summits reach thirty feet in height. From their proximity, the hills coalesce as a landscape of regularized landforms whose total composition transcends the sum of its parts. Where the slope is too extreme, wooden stairs lead to the crests of the hills. Plantations of trees and shrubs complement the earth forms—vegetation always plays more than one role. Trees provide shade and spatial variation throughout the site, amplified by judiciously distributed shrubs of various heights. Shrubs and trees cover some hills to enhance their profile and discourage damage by foot traffic. In concert with the hills, designed woodlands veil, or at least soften, the presence of the mammoth apartment blocks—and set the park off as an independent terrain. Occupying the zones between the hills and the play areas, water parterres further enhance an already topographically rich environment.

The Parc Jean Verlhac is a prime example of transforming a seeming liability—tons of excavation spoil—into an asset, used positively and creatively to shape a new land simply by digging and piling in the right places, to shape the appropriate forms.



GOOGLE EARTH

South Pointe Park

Miami Beach, Florida
2009
Hargreaves
Associates

The island city of Miami Beach is itself a topographic construction, made habitable by filling and elevating a barrier island on Biscayne Bay off the coast of Miami. With considerable fanfare, Carl G. Fisher and his partners developed the property in the early years of the twentieth century, converting a quagmire of sand and mangroves into a tropical resort whose hotel construction in the Art Deco style continued even through the years of the Depression. Troops trained or stationed in South Florida during World War II added to its population, which was given a further boost when Miami Beach again became a tourist destination in the immediate postwar years. In contrast to the glamorous hotels that lined Collins Avenue, South Beach remained more modest in its architecture and the net worth of its population. But with its renewed appeal to celebrities and tourists late in the twentieth century came the consequent rise in land values, which, in turn, led to increased density, taller buildings, and extensive redevelopment. To serve that enlarged population as well as those attracted by the park's open space and facilities, Hargreaves Associates (today HargreavesJones) reworked South Pointe Park.

Although there are many worthy aspects to the design—including dune restoration and water sequestration—the primary physical features of the 11-acre park are a relentlessly straight promenade at the tip of the island along Government Cut and a serpentine berm that recalls both the celebrated *Serpent Mound* in Ohio and the bowed form of Robert Smithson's 1973 *Amarillo Ramp* in Texas. The mound begins in the west at grade and rises as it snakes toward the Atlantic Ocean. As it twists toward the east, the winding earth form embraces a children's play area and service building, then tapers and descends to meet grade near the dune restoration at the oceanfront.

Piling and grading order the park's features and many of its activity zones. A paved walkway traverses the length of the berm, grass-covered on both sides, along its crest. From its summit views of the park and its surroundings enfold the bay, the ocean, and Government Cut—depending on the direction of one's walk. South Pointe's serpentine mound demonstrates the ability of a simple form to at once structure and define space, while orchestrating movement and views by day—and even by night.

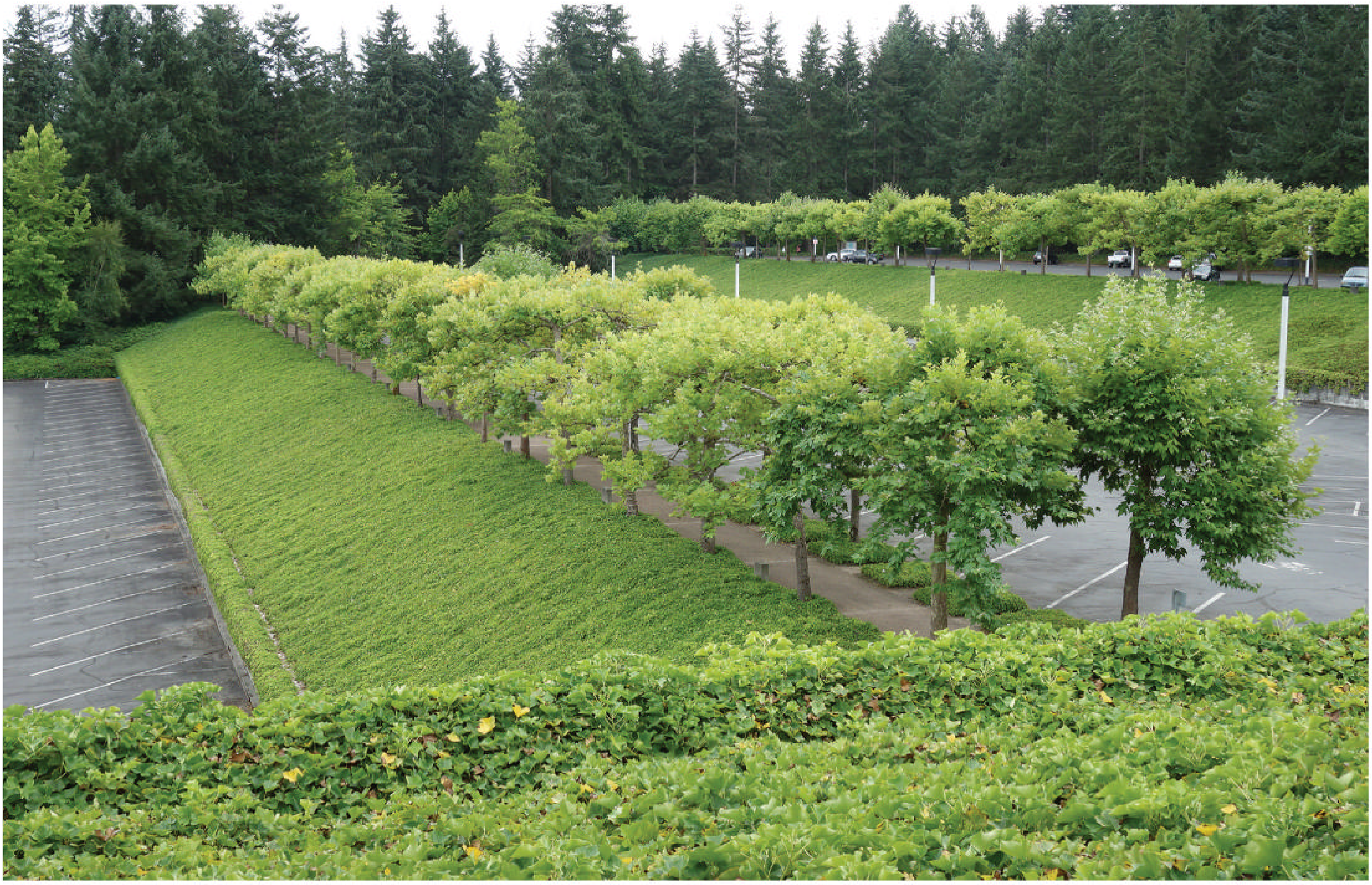
Weyerhaeuser Headquarters

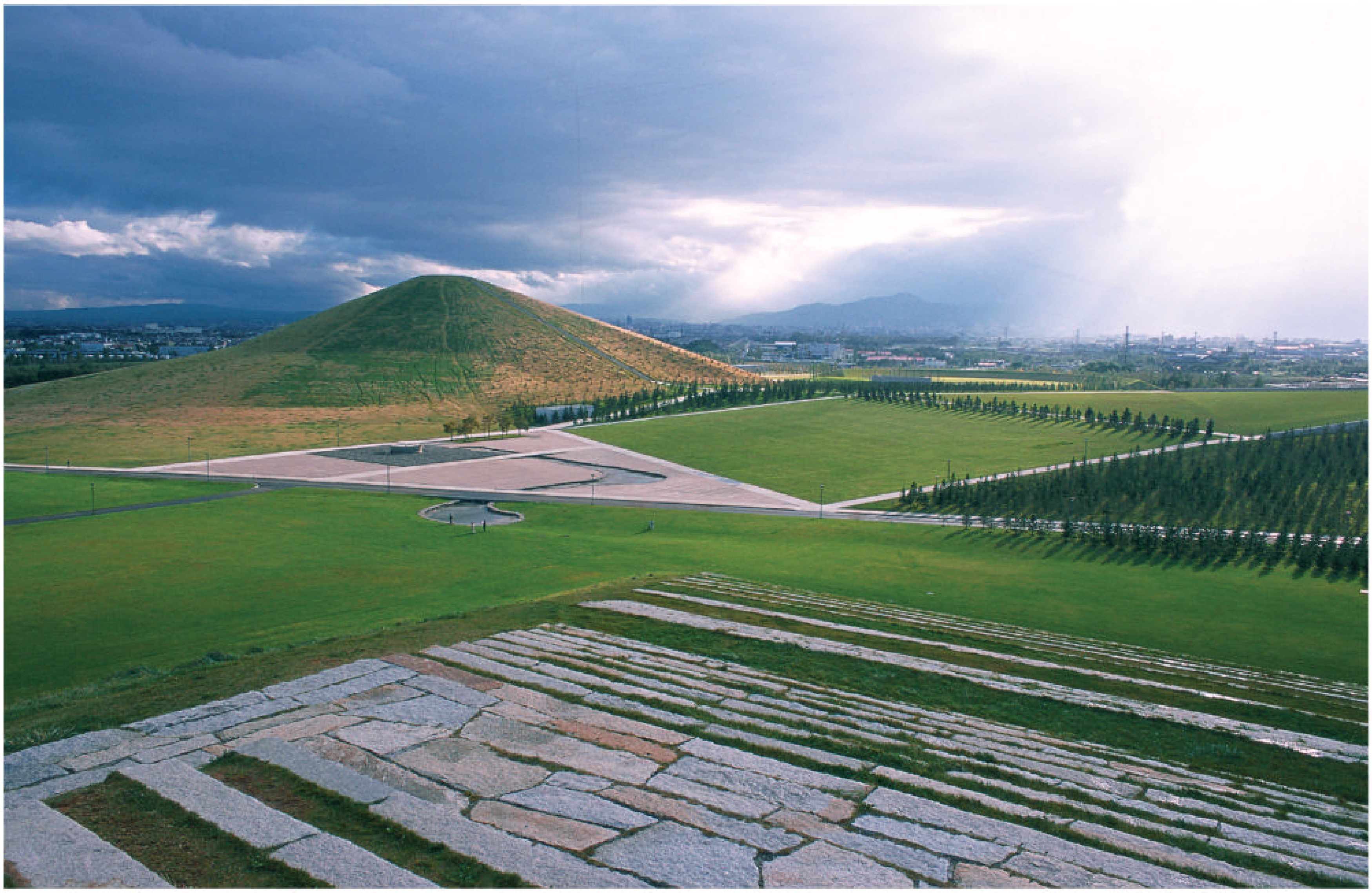
Tacoma, Washington
1972
SWA/Peter Walker, landscape architects;
Edward Bassett, Skidmore, Owings & Merrill, architects

To secure level terrain from an existing slope is among the most commonly demanded topographic acts. Leveling can be accomplished through obliteration—flat ground created by displacing the mass of the hill—or through terracing. Terraces are most frequently created using cut and fill: taking soil from a higher part of the slope and depositing it below. The net result of this plus and minus operation totals zero: flat land. The site of the Weyerhaeuser forest products headquarters outside Tacoma, Washington, is a valley. Working with Edward "Chuck" Bassett of Skidmore, Owings & Merrill, landscape architects SWA, with Peter Walker as lead, conceived the building as a bar set perpendicular to the axis of the valley almost in the manner of an architectonic dam. East of the building, a new lake serves primarily ornamental purposes; to the west, the land was kept dry and planted with wild-flowers and grasses.

Rather than banishing to some remote spot the parking spaces required by those working in the building, or completely leveling the hillside, the slope was graded into parking terraces positioned at both the northern and southern ends of the building. The figure of the resulting site plan is roughly a Z in form. To avoid the need for major retaining walls, the terrace edges were graded to the soil's angle of repose, thereafter stabilized by blankets of ivy.

Two rows of plane trees line each of the terraces and define walkways that gather employees and bring them to the building. In addition to strengthening the boundary of each terrace, these allées create leafy filters through which to view the landscape, both proximate and distant. At the base of the trees along the walkway, additional patches of ivy join tree and ground, and support the rhythm created by those coming and going. The cumulative effect is arguably the most pleasant and attractive arrival, parking, and departure experience of any workplace, anywhere.





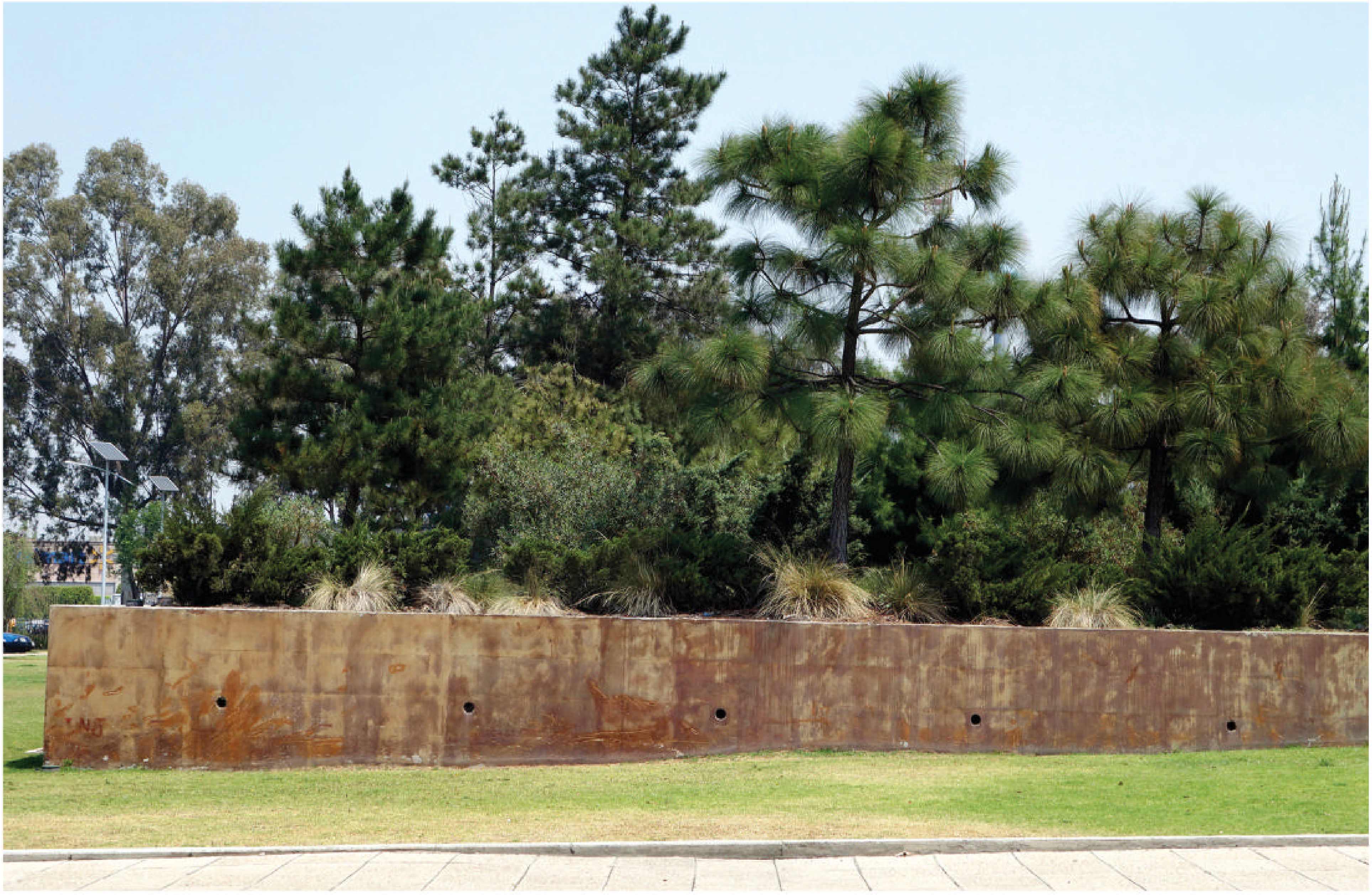
Moerenuma Park

Sapporo, Japan
1988–2015
Isamu Noguchi, conception;
Shoji Sadao, Jun'ichiro Kawamura and Architects 5, realization

Several months before his death in 1988, Isamu Noguchi received the commission to design a new park in Sapporo, the prefectural capital of Japan's northern island of Hokkaido. Offered his choice of three possible sites, Noguchi opted for a landfill on the northeastern corner of the city on which some conversion activities were already underway. In his remaining time he made numerous studies and achieved a design he regarded as definitive. For seventeen years thereafter, Jun'ichiro Kawamura of Architects 5 in Tokyo, Shoji Sadao at the Noguchi Garden Museum in Long Island City, and the Sapporo parks department guided the completion of Noguchi's original vision as best they could under the constraints imposed by the site and the budget. Fortunately, the terrain resulting from decades of dumping was primarily nontoxic; these deposits were augmented by clean fill fortuitously gathered from excavations for Sapporo's new subway system then under construction.

The design brief called for creating a mountain, fittingly named Moere Mountain. In conceiving the park Noguchi revisited several designs from his past, mixing them with new features, resulting in new terrain. Here, he was finally to realize, in modified form, his *Play Mountain,* first proposed in 1933. Originally destined for an unspecified site in New York City, the design was now realized on a suburban landfill at a scale far greater than initially conceived. A slope on the rear side of the hill accommodates those wishing to reach the summit but who are unable or unwilling to mount the granite steps on its primary face. The amphitheater was modeled as a huge sheet of earth, inclined for concerts and other events with large audiences. *Tetra Mound,* a hemispherical dome covered with grass and capped by a colossal steel tripod, welcomes visitors who enter the park from the north. In all, Moerenuma Park probably hosts the world's largest collection of recreational earth forms that may also qualify as sculpture.

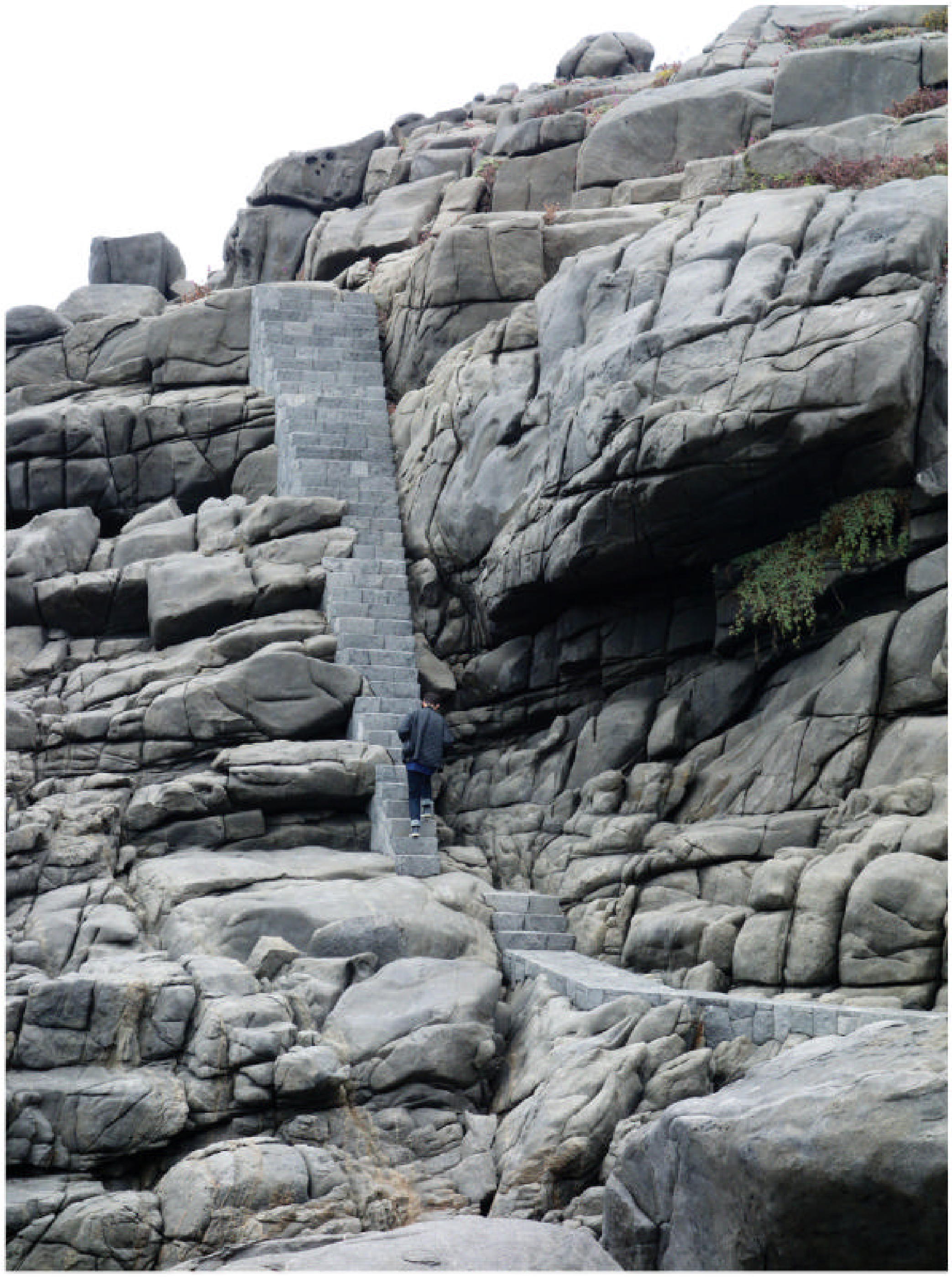
Elevations in the landscape such as those at Moerenuma face the chronic problems of erosion and dissipation. Yet despite the harsh northern winters, the steepness of some slopes, and the popularity of the park, these giant earth forms in Sapporo have endured and even thrived. The lesson accompanying this happy ending seems to be that any wasteland can be made useful and durable, and if done really right, even joyful.



Natura Garden, Parque Bicentenario

Azcapotzalco,
Mexico City, Mexico
2011
Mario Schjetnan/
Grupo de Diseño
Urbanos

Vacated in 1990, the land of the former Pemex oil refinery in Mexico City was so polluted that in some areas it was impossible to ameliorate the soil or bury it beneath a layer of clean fill. The only remaining solution was to cap the polluted land with a massive concrete slab three feet thick. In conceiving the program for the sports fields, stadium, greenhouses, and sample *chinampa*—all part of the proposed 136-acre park—landscape architect Mario Schjetnan argued that a botanical garden showcasing Mexico's rich palette of flora would be vital for truly commemorating the nation's bicentennial. This botanical zone would also include an arboretum displaying representative species of trees from all parts of the country. Although the concrete cap offered a literal tabula rasa for the new design, it did nothing to support the growth of trees, especially large trees. Different species required different volumes of earth imported to the site and subsequently graded as a landscape whose depths and contours had been determined by the needs of the individual families of tree. This variation in the required depth and volume resulted in a softly undulating landscape strictly determined by botanical necessity. Today the mature trees appropriately obscure the contours—after all, they are the reason for the garden—diminishing the presence of the topography that plays a decisive role in supporting their existence. But Mario Schjetnan's solution to a functional problem far surpassed mere necessity; need only instigated and provided the basis for this new landscape shaped by both reason and poetry.



Paseo del Mar Punta Pite

Zaballar, Chile
2005
Teresa Moller

Punta Pite lies some 90 miles northwest of Santiago on a rocky Pacific coast in a private residential enclave. The shoreline is granite, rough-hewn, shaped by waves and tides, and virtually impassable to all but the most courageous and able. The project for this oceanside rambla grew from the need to make the coast accessible. A small creek leading from the hilltop to the sea has been left as a linear greenway, with bridges of heavy timber installed where needed to navigate the slope or cross the creek. It stands in stark contrast to the raw shoreline into and upon which the new land bridge of stone has been superimposed.

Movement is supported by the new walk, designed and supervised by landscape architect Teresa Moller, who worked on the project for almost two years, and who ultimately built her own house on a slope nearby. Here, the coastline was neither deformed nor destroyed; here, topography dictated the design. If there was ever a lucid dialogue between landform and design intervention, it is found here on the coast of Chile.

In a complete inversion of the normal design process, drawings were made only after construction. Replacing work on paper or screen, every few weeks the Moller team used tape and chalk to mark out the next segment of the path to be realized. Some forty stone craftsman—the project helped renew the craft in the region—executed the design by turning uneven surfaces into smooth planes, adding steps where needed for passage; straight in sections, twisting in others. No rocks were removed, no surfaces demolished. Rocks may still interrupt the finished path or direct movement into an angled or abrupt turn. The play of constructed geometry against natural forms creates a new language, a pidgin design language requiring the participation of both speakers. Here, 1+1 equals at least 5.

Despite the beauty of the intervention, the path remains a physical challenge, lacking handrails and all the other devices normally required to support and ease our movement. Yes, the path is elitist, restrictive, and perhaps discriminatory. But for those who are able and willing, the experience of traversing its kilometer-long path rewards the effort. Here, design bows to terrain, accepts it, and addresses what already exists on-site, completing—rather than competing—with the landscape in a masterful way. ●

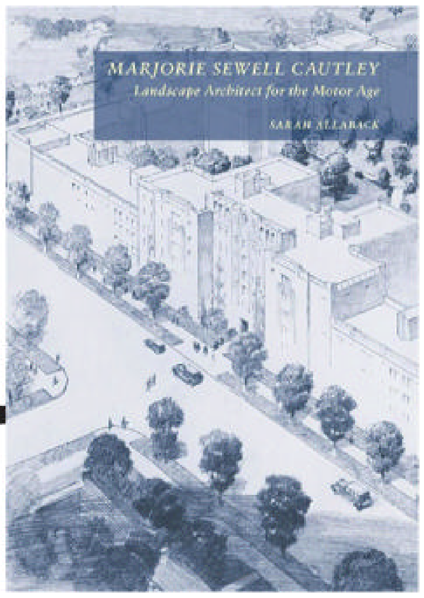
MARC TREIB, HONORARY ASLA, IS A PROFESSOR OF ARCHITECTURE EMERITUS AT THE UNIVERSITY OF CALIFORNIA, BERKELEY, AND A HISTORIAN AND CRITIC OF DESIGNED LANDSCAPES, ARCHITECTURE, AND ART.

THE BACK / **BOOKS**

EDITED BY MIMI ZEIGER

THOROUGHLY MODERN MARJORIE

MARJORIE SEWELL CAUTLEY: LANDSCAPE ARCHITECT FOR THE MOTOR AGE



BY SARAH ALLABACK; AMHERST, MASSACHUSETTS: LIBRARY OF AMERICAN LANDSCAPE HISTORY, 2022; 208 PAGES, $40.

REVIEWED BY ELISSA ROSENBERG

Female landscape architects have been active in the profession since the founding of ASLA in 1899. Their work is fundamental to the history of the profession, but all too often they are relegated to the footnotes or missing from the project credits. “Women are largely responsible for inventing landscape types now taken for granted in American cities—community gardens, playgrounds, streetscapes, ecological planting, and the shared open spaces of clustered housing,” writes Louise Mozingo, ASLA, in *Women in Landscape Architecture: Essays on History and Practice* (2011, coedited with Linda Jewell, FASLA). Sarah Allaback’s new biography of Marjorie Sewell Cautley, published in the Library of American Landscape History (LALH) series, is an important contribution to an expanding body of scholarship that redresses women’s seeming invisibility in the profession.

The shift toward a more inclusive history began with the rediscovery of Beatrix Jones Farrand in the 1970s, which coincided with a renewed interest in private gardens. Since then, scholars such as Judith Tankard, Cynthia Zaitzevsky, and Thaïsa Way, FASLA, have published many monographs, articles, and edited volumes on Farrand and other female practitioners. Born in 1891, two decades after Farrand, Marjorie Sewell Cautley belonged to a second generation of female landscape architects. She’s best known for her collaborations with the architects Henry Wright and Clarence Stein on public housing projects built in the 1920s and 1930s. Cautley designed the domestic landscapes at Phipps Garden Apartments, Sunnyside Gardens, Radburn, and Hillside Homes, all organized around shared common spaces. She used spatial design and planted form to subtly define the space of private family life within the larger social commons. Through her nuanced attention to the details of domestic life, she created “designs that considered her clients’ unspoken desires as well as their needs.”

Though Cautley’s office records were destroyed near the end of her career, Allaback, an architectural historian and senior editor at LALH, has nonetheless written a vivid biography of Cautley by mining her published writings, scrapbooks, photographs, 16 mm films, and correspondence, along with remaining drawings and plans. Informative and sometimes chatty, the book succeeds in bringing its subject to life. It begins with a focus on Cautley’s early years and the launching of her practice. Allaback then dedicates each of the following chapters to a significant project: Sunnyside, Radburn, and the New Hampshire State Parks, and closes with her final years. The book is gorgeously produced, filled with beautifully reproduced drawings, plans, and historic photographs, many of them in color.

New!
World Launch -

Manufactured by:
sure-loc

Slide-Edge™

Professional Grade Sliding Aluminum Landscape Edging

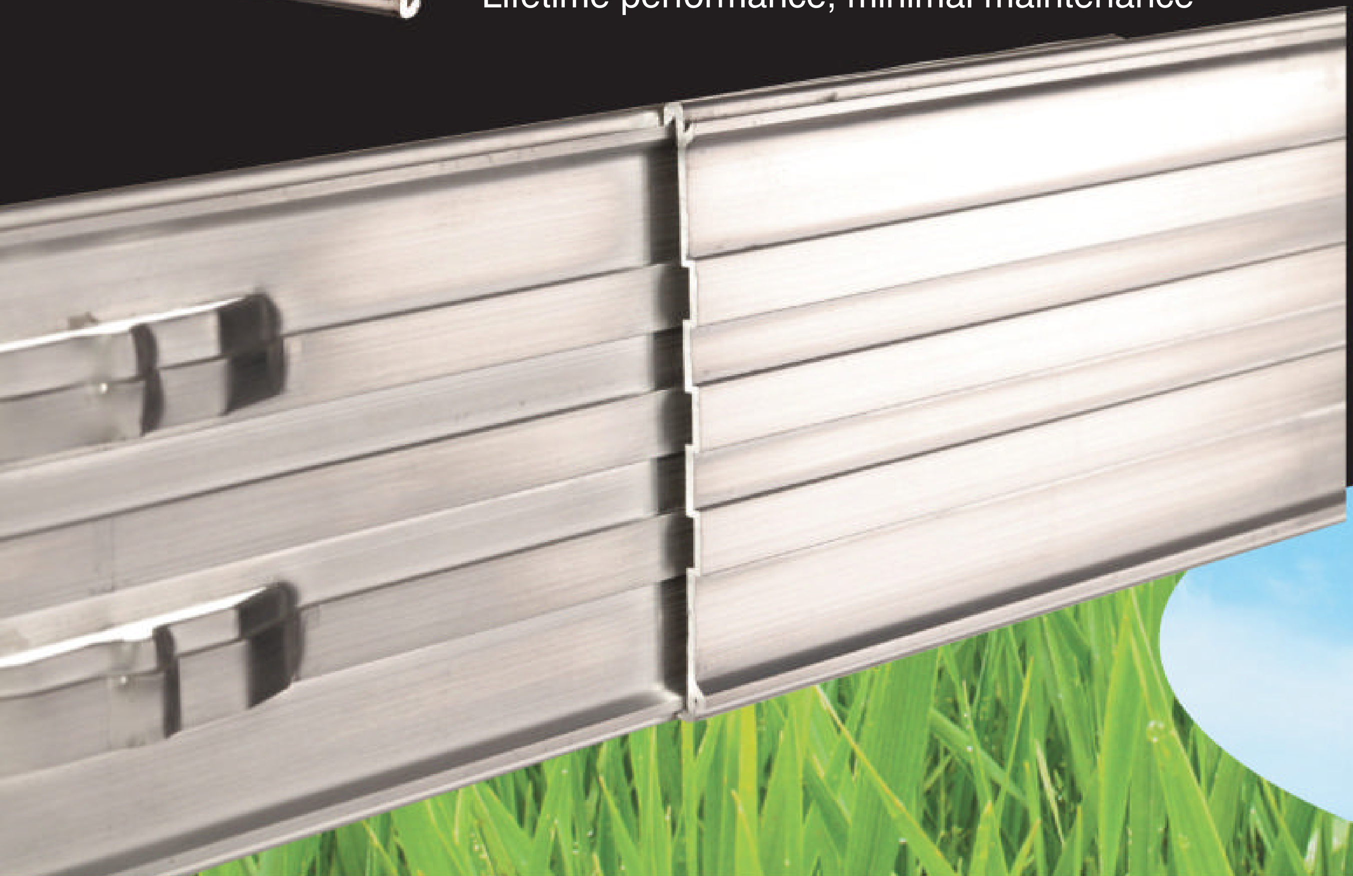
BLACK

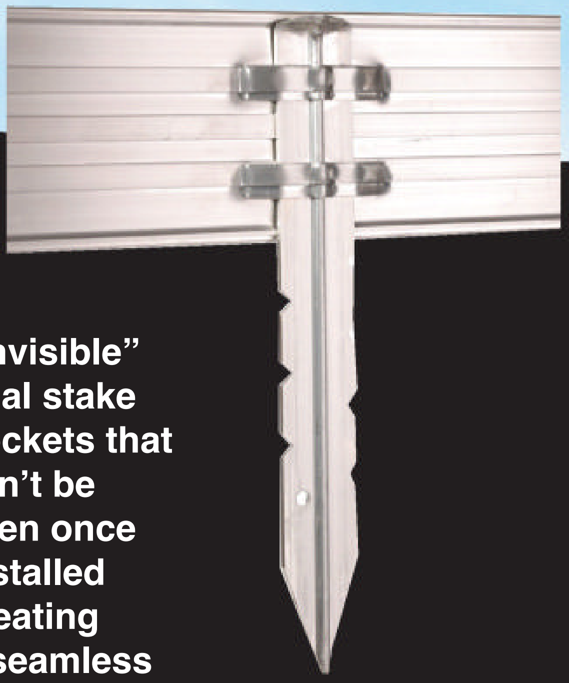
SILVER (Mill)

MADE IN THE USA from recycled material

Slide-Edge telescopes together providing fast, flexible & simple installation.

- High quality 6130 grade aluminum
- Cut and connect anywhere allowing for flexibility & adjustability during installation
- Lifetime performance, minimal maintenance





"Invisible" dual stake pockets that can't be seen once installed creating a seamless appearance

12" heavy duty Aluminum Stakes are included

SIZES & FINISHES AVAILABLE

Thickness:	1/8" (3.2mm)
Height:	4" (102mm)
Lengths:	7'10" (2.39 meters) or 16' (4.88 meters)
Finishes:	Mill Finish & Black Paint

Item#	Description	Sections Per Box	Feet Per box	Stakes Per section
SLDEDG8ML	1/8 X 4" X 7'10" Mill finish	15	117.5'	3
SLDEDG8BK	1/8 X 4" X 7'10" Black finish	15	117.5'	3
SLDEDG16ML	1/8 X 4" X 16' Mill finish	16	256'	4
SLDEDG16BK	1/8 X 4" X 16' Black finish	16	256'	4

www.surelocedging.com
1.800. 787.3562
info@surelocedging.com

LEFT Marjorie Sewell at her graduation from Cornell University, 1917.

Cautley's career provides an unusual window into the emerging profession of landscape architecture after the First World War and women's place within it, particularly in the design of public landscapes. A trailblazer, Cautley was the first female graduate of the Cornell undergraduate landscape architecture program in 1917. According to Allaback, she was also the first woman to design landscapes for urban housing developments and the first to supervise the design and construction of state parks. Regarding the latter, Allaback wryly comments, "She appears not to have recognized this achievement, and neither did anyone else." But Cautley was not alone; we learn she belonged to a significant cohort of successful female design professionals whose careers developed along many different paths.

Allaback moves back and forth easily between Cautley's personal and professional life, blending biography with social history and design criticism. She shares the texture of Cautley's everyday life—her family life, her social networks and political connections, her daily office environment, her ambition, and her "quirky sense of humor"—while discussing individual projects within a rapidly changing social and cultural context. The book deftly ties these strands together. Allaback delves into the question of Cautley's success as a female practitioner, against all odds, by providing detailed descriptions of her professional friendships, family connections, and the New Deal politics that gave her entrée to professional paths that previously were closed to women.

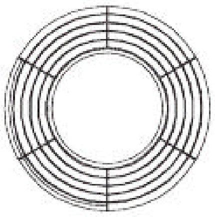
According to Allaback, Cautley's extraordinary drive and intellectual curiosity were already evident as a child. Born at Mare Island Naval Shipyard in Vallejo, California, to a military family, she was orphaned at 13 and raised by relatives, later attending an elite prep school for girls in Brooklyn and taking classes at Pratt Institute on Saturday mornings. We learn of her resolve as a young woman to have an independent profession, and later, of her enterprising solutions to the financial pressures that pushed her to take on new kinds of work, such as writing and public speaking.

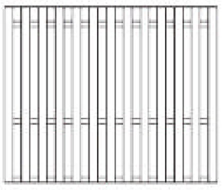
At its best, the book is a compelling portrait of the larger landscape architecture profession, describing the daunting barriers women faced in multiple spheres, including higher education. Most professional degree programs were not open to women when Cautley chose to study landscape architecture. Her experience is captured poignantly in the details of her application to the Cornell Department of Landscape Architecture in 1915, one of the few university programs in landscape architecture open to women at the time. (MIT had opened a coed program in landscape architecture in 1900 as part of its architecture course, but it closed in 1909, and Harvard did not become coed until 1942.) In response to her letter asking if Cornell's course was open to women and "how the program's graduates fared in the workplace," Professor E. Gorton Davis encouraged Cautley to apply but added, "While there are always a few girls amongst the students and one or two in the past ten years have done reasonably well, of course it is entirely problematical as to the possibilities for women in landscape work."

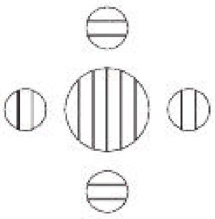
Cautley was admitted to Cornell's coed program. There she received a solid design education with an emphasis on horticulture and planting design, and forged lasting friendships with classmates who would later form the basis of her professional network. Prominent women practitioners inspired the female students: Farrand, one of 11 founding members of ASLA; Elizabeth Bullard, elected as ASLA's first new fellow; and Ruth

MSCP CORNELL

TAKING IDEAS
FROM IMAGINATION
TO THE SITE.

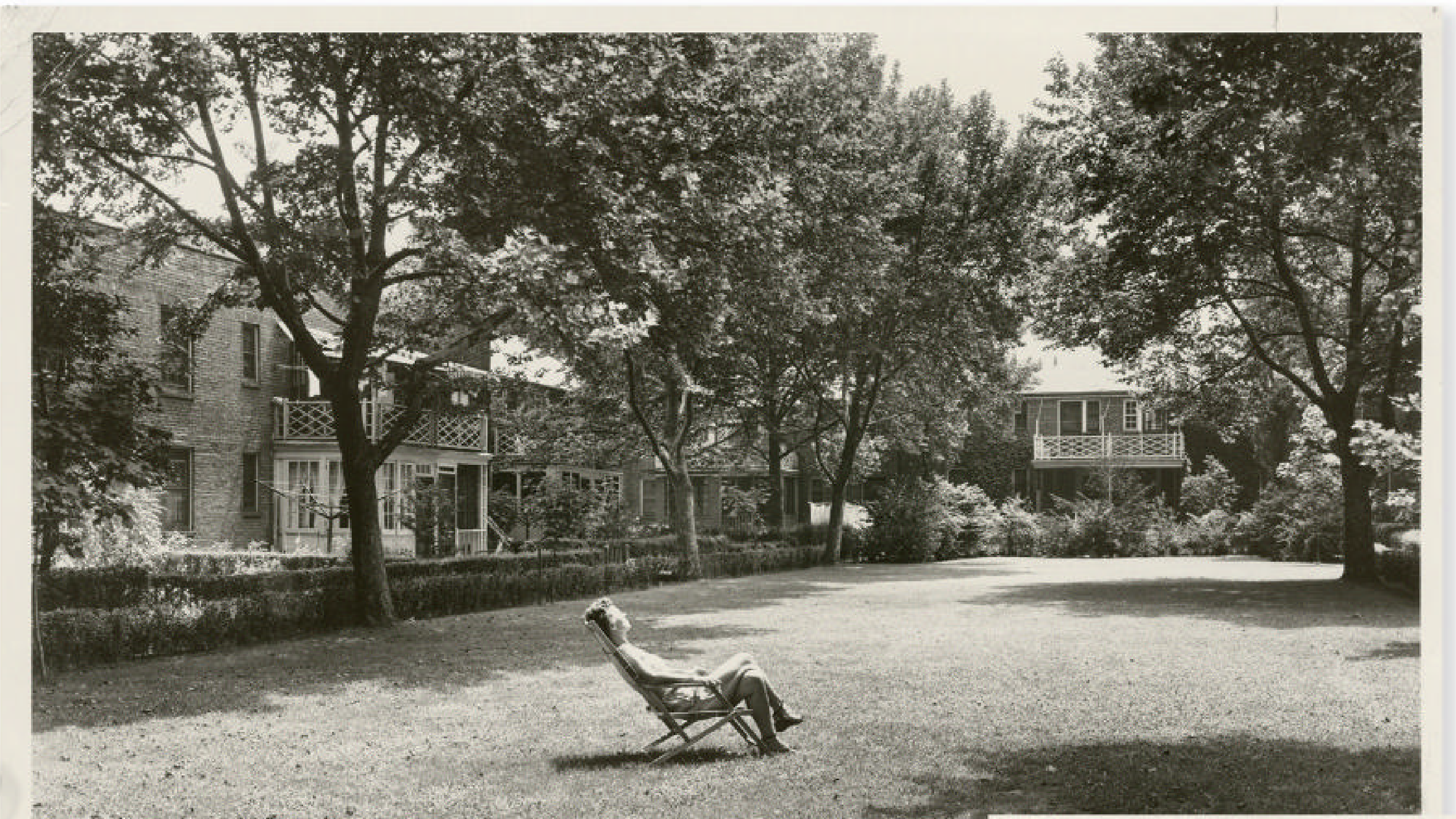






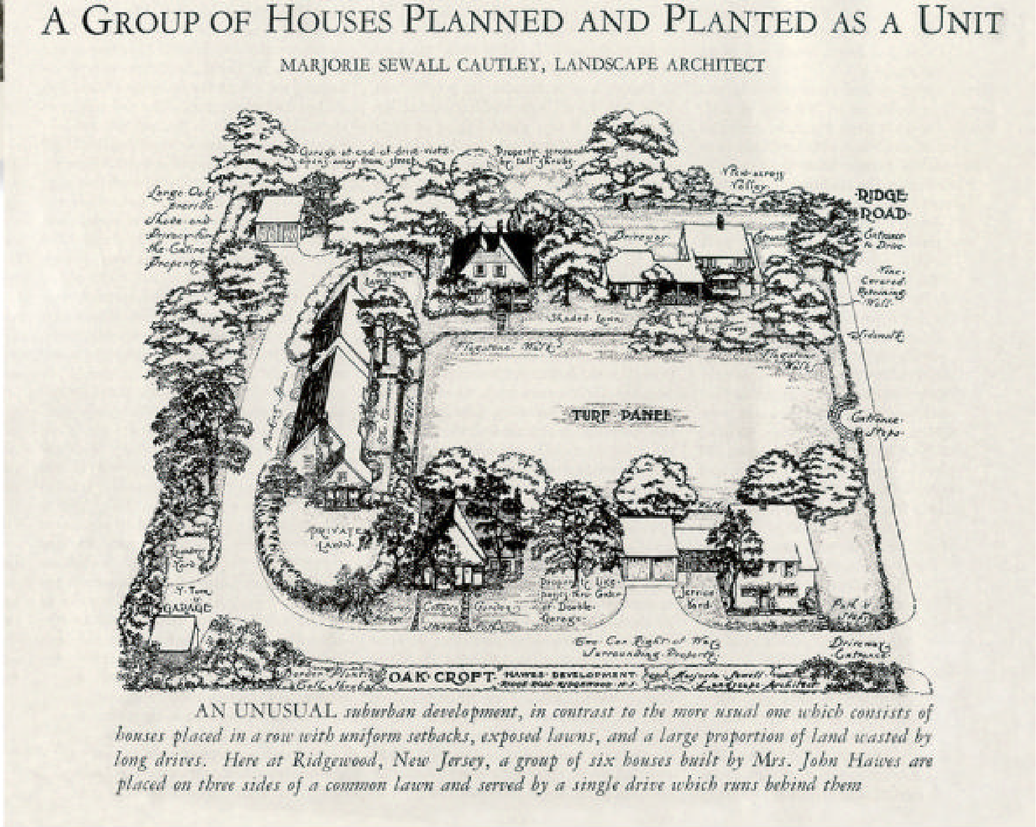
TOP-GRADE WOOD • METALS • RECYCLED PLASTICS 1.800.937.0203 site-craft.com

SITECRAFT
CUSTOMIZED TO YOUR IMAGINATION



LEFT
Sunnyside Gardens in Queens, New York, 1949.

BELOW
Oak Croft in Ridgewood, New Jersey, as featured in *House Beautiful* in 1929.



A GROUP OF HOUSES PLANNED AND PLANTED AS A UNIT

MARJORIE SEWALL CAUTLEY, LANDSCAPE ARCHITECT

RIDGE ROAD
TURF PANEL
PRIVATE LAWN
GARAGE
OAK CROFT
HAWES DEVELOPMENT

AN UNUSUAL *suburban development, in contrast to the more usual one which consists of houses placed in a row with uniform setbacks, exposed lawns, and a large proportion of land wasted by long drives. Here at Ridgewood, New Jersey, a group of six houses built by Mrs. John Hawes are placed on three sides of a common lawn and served by a single drive which runs behind them*

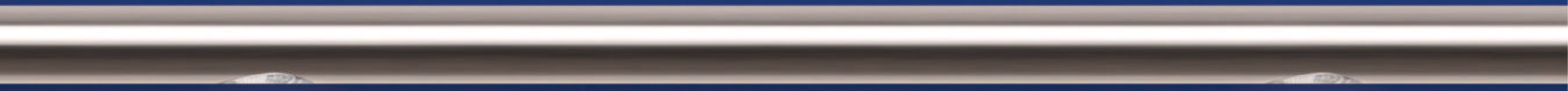
Dean and Ellen Shipman, who often hired and mentored women. Allaback describes the informal networks that were essential for professional advancement given the exclusionary climate of design and planning practice at the time.

In 1920, the year women gained the right to vote, Cautley opened her own office in Ridgewood, New Jersey, at the age of 28. Much of Cautley's practice was fueled by the postwar housing boom. Traditional private homeownership had become a core American ideal, and "the restoration of domestic comfort, through new house design, became a national movement." Supported by campaigns like Better Homes in America, launched in 1922 to increase homeownership and preserve traditional family values, and magazines like *House Beautiful* and *House & Garden,* Cautley was able to tap a growing market for home design for the middle class through the design of model houses. But instead of adopting the traditional ideals of domesticity promoted by Better Homes, she used landscape elements to expand the design vocabulary of middle-class single-family housing and appeal to new lifestyle choices—using such elements as sleeping porches, arbors, and, above all, native woodland plantings. Oak Croft in Ridgewood, New Jersey, was one of her first significant commissions. Here, in a suburban setting, she would begin to experiment with what would become a defining feature of her later urban work: the residential common spaces that would promote, in her words, "a community spirit of 'get together'" in which six houses were planned as a single U-shaped unit sited around a common lawn and surrounded by a driveway tucked behind the houses. *House Beautiful* published the project in 1929.

CSP CORNELL. TOP: HOUSE BEAUTIFUL 65 (JANUARY 1929), INSET

V-Rail Spot

Illuminated Handrail System



Developed from the ground up, the revolutionary V-Rail Spot brings best in class light levels with unmatched flexibility in placement and spacing within a complete system. Discrete light engines with proprietary optics provide exceptional beam consistency, uniformity and allow for true curved rail capabilities.

Up To 200lm/ft Delivered

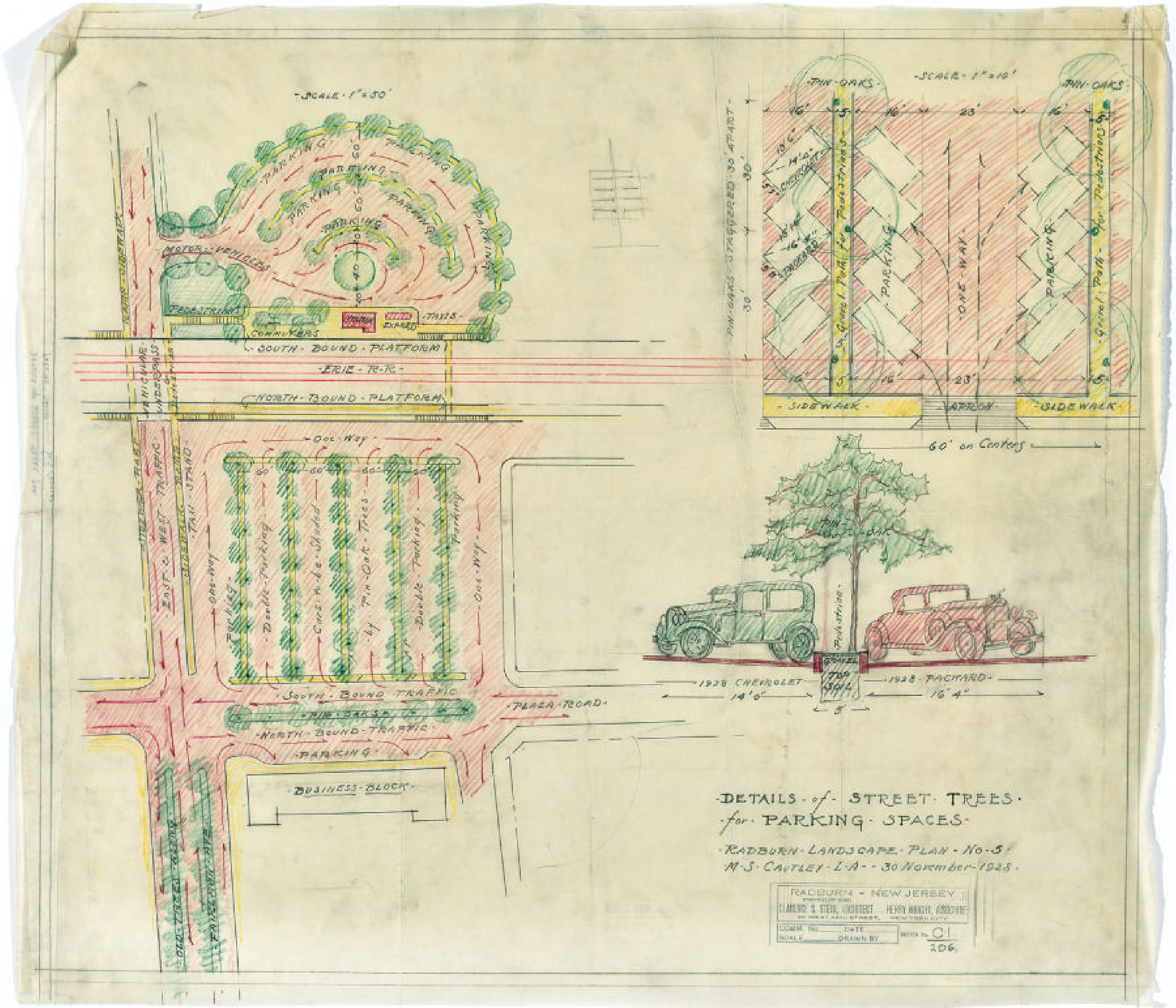
Symmetrical & Asymmetric Optics

Complete System for Optimal Performance

4
FIVEPOINT
ARENA
V

Learn more at www.intenselighting.com/en/vrail

intense LIGHTING | a LEVITON company


·SCALE·1"=50'
PARKING
MOTOR·VEHICLES
PEDESTRIANS
COMMUTERS
EXPRESS
TAXIS
·SOUTH·BOUND·PLATFORM
·ERIE·R·R·
·NORTH·BOUND·PLATFORM
VEHICULAR UNDERPASS
EAST & WEST TRAFFIC
TAXI·STAND
One·Way
Double·Parking
Pin·Oak·Trees
SOUTH·BOUND·TRAFFIC
NORTH·BOUND·TRAFFIC
·PARKING·
·PLAZA·ROAD·
BUSINESS·BLOCK
·SCALE·1"=10'
·PIN·OAKS·
PIN·OAKS STAGGERED 30' APART
Gravel Path for Pedestrians
PARKING
ONE·WAY
SIDEWALK
APRON
60' on Centers
1928 CHEVROLET 14'0"
1928·PACKARD· 16'4"
Pin·Oak
·DETAILS·of·STREET·TREES·
·for·PARKING·SPACES·
·RADBURN·LANDSCAPE·PLAN·No·5·
M·S·CAUTLEY·L·A··30 November·1928·
RADBURN · NEW JERSEY
CLARENCE S. STEIN, ARCHITECT HENRY WRIGHT, ASSOCIATE
COMM. NO. DATE
SCALE DRAWN BY
C1
206

ABOVE
"Details of Street Trees for Parking Spaces, Radburn Landscape Plan No. 5," 1928.

MSCC COLUMBIA

This new block type was the hallmark of the urban "superblocks," which Cautley designed in collaboration with Henry Wright and Clarence Stein. These affordable housing projects reflected the goals of the Regional Planning Association of America (RPAA), established in 1923 to provide a holistic framework, based on garden city principles, to address the problems of urban congestion and the need for open space. One of the RPAA's first projects was the Appalachian Trail (the first section was completed in 1925), designed by Benton MacKaye to protect the wilderness and make the landscape more accessible. Sunnyside Gardens, built between 1924 and 1928, was based on a new urban courtyard block type of two-story houses and three-story apartment buildings. Cautley's planting plans for the private hedged gardens and the large, shared courtyard and playgrounds delicately balanced the demands of domestic and social life, paying particular attention to the needs of mothers and children.

Cautley refined this approach in her work at Radburn, New Jersey, a larger and more ambitious middle-class garden city planned in 1928 for 25,000 residents. Radburn, dubbed a "Modern Town for the Motor Age," was based on separating foot traffic from vehicular traffic. The single-family houses were "flipped" back to front; their backyards faced the street, a narrow cul-de-sac, while the fronts of the houses were oriented toward the gardens. Cautley transformed the symmetrical "rigid and lifeless" site plan shown on the first prospectus into a rich sequence of private gardens, areas for sports and children's play, and a large sinuous park shared by the residents that featured open meadow areas and native plants.

Cautley's move to government-funded work proved to be a turning point for her practice and a groundbreaking move for female landscape architects. Women had been shut out of the public agencies that provided many employment opportunities available to landscape architects during the Depression, such as the Civilian Conservation Corps, the National Park Service, and the Forest Service. Cautley was the first woman to break through this barrier, according to Allaback. In 1933, she was hired by New Hampshire's Recreational Development Office, funded by the Civil Works Administration, as a landscape architectural consultant overseeing the design of state parks and supervising their construction and planting. Cautley's use of native plantings, scenic roads, and rustic detailing contributed to an emerging aesthetic of New Deal-era state parks. Large-scale public recreational landscapes based on automobile tourism were sensitively set into existing woodlands and adapted to the local topography.

ELEVATE YOUR LANDSCAPE
with Natural Stone Hardscapes
by Kafka Granite

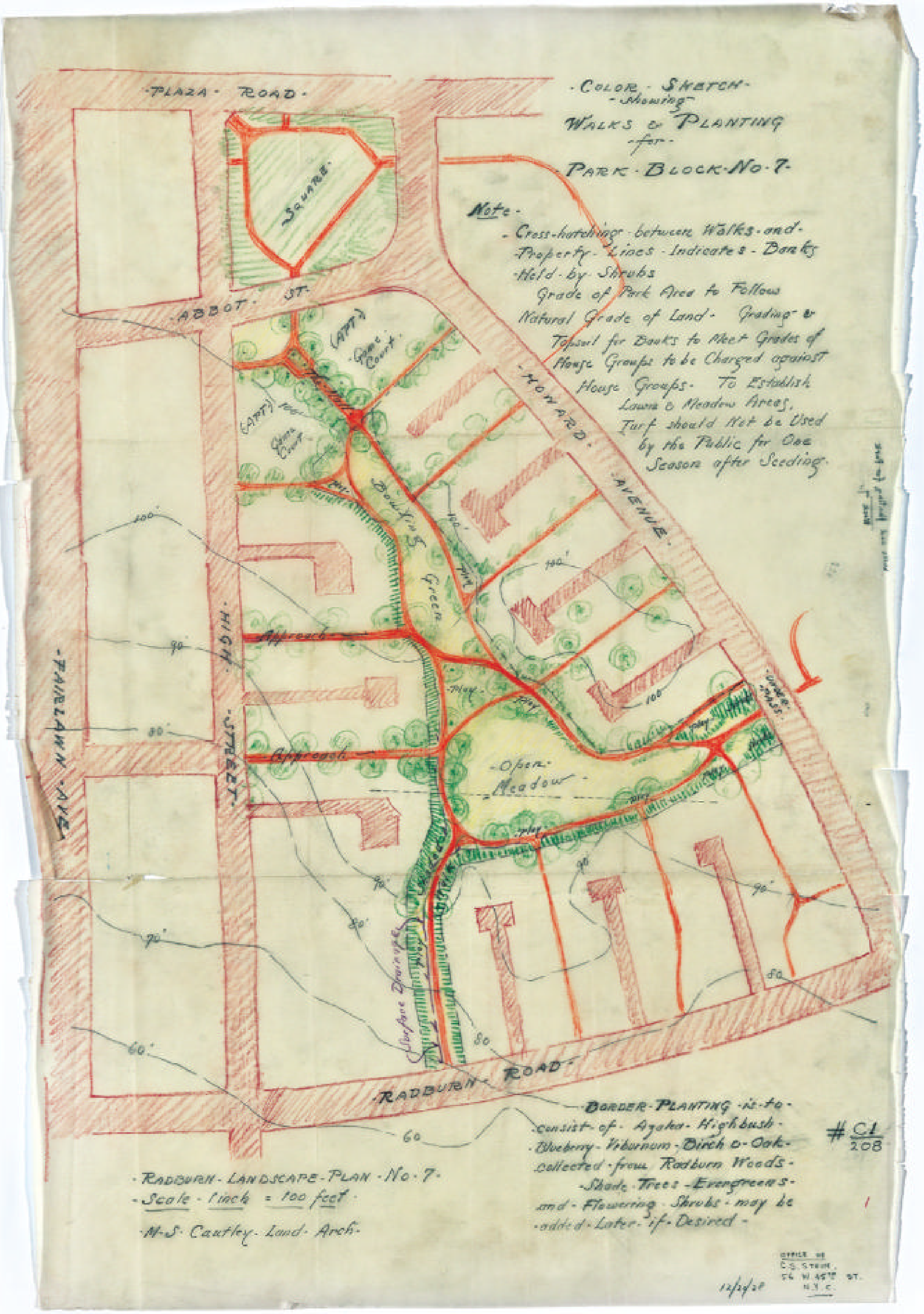
Kafka Granite delivers some of North America's most spectacular natural stone from the earth's surface to dream homes, parks, and commercial properties. Add a lifetime of durability and beauty to your landscape project with Kafka's:

- Sawn Cut Drywall
- Thermal-Top Steps
- Thermal Flagstone
- Treads
- Sawn Edging
- Caps and Coping

Natural Stone. Groundbreaking Solutions.

Kafka Granite

kafkagranite.com
800-852-7415


·Color · Sketch·
·Showing·
Walks & Planting
·for·
Park · Block · No · 7 ·
Note ·
· Cross-hatchings · between Walks · and ·
Property · Lines · Indicates · Banks
·Held · by · Shrubs
Grade of Park Area to Follow
Natural Grade of Land · Grading &
Topsoil for Banks to Meet Grades of
House Groups to be Charged against
House Groups · To Establish
Lawns & Meadow Areas,
Turf should Not be Used
by the Public for One
Season after Seeding
·Plaza · Road ·
Square
·Abbot · St ·
·Howard · Avenue ·
·High · Street ·
·Fairlawn · Ave ·
Open Meadow
Bowling Green
Approach
Surface Drainage
·Radburn · Road ·
·Border · Planting · is · to ·
consist · of · Azalea · Highbush ·
·Blueberry · Viburnum · Birch & Oak ·
collected · from Radburn Woods ·
·Shade · Trees · Evergreens ·
and · Flowering · Shrubs · may be
·added · Later · if · Desired ·
#C1/208
·Radburn · Landscape · Plan · No · 7 ·
·Scale · 1 inch = 100 feet ·
·M · S · Cautley · Land · Arch ·
Office of
C. S. Stein
56 W 45th St.
N.Y.C.
12/21/28

RIGHT
"Radburn Landscape Plan No. 7" shows the park between the superblocks planted as an "open meadow" and "bowling green."

MSCC COLUMBIA

In 1935, she began teaching in the newly established graduate program in city planning at MIT, another first for a woman.

Tragically, Cautley suffered from mental illness at the end of her life. Her breakdown is left vague and comes as a surprise in Allaback's otherwise upbeat portrait of Cautley. Even the diagnosis—"neurasthenia," a "nervous condition associated with overwork"—raises many questions that, curiously, the author does not address. Cautley's husband, Randolph, committed her to a mental hospital in 1937. Released four years later with the help of her friends, she then resumed her career, divorced her husband, and earned a graduate degree in city planning from the University of Pennsylvania at the age of 52. But this productive period was short-lived. She was institutionalized again shortly afterward and died 10 years later in a sanitarium, in 1954. She was 62. Allaback's laconic narrative of this period is disturbing; though perhaps constrained by the lack of available information, she disappointingly omits any historical context for understanding the attitudes toward mental illness at the time—and its brutal treatments, especially for women.

The 1920s and 1930s were a transformative period for the planning and design professions. Cautley's career reflected these changes and was shaped by them, specifically by the experimentation with new forms of public or semipublic landscapes for middle-class housing and recreation. *Marjorie Sewell Cautley: Landscape Architect for the Motor Age* adds a rich new layer to our understanding of Cautley's contribution to landscape architecture, especially her nuanced adaptation of public park programs to suit diverse users, her strong planting designs, and her frequent use of native plants. Allaback's narrative insightfully weaves together the detailed story of Cautley's life against a cultural backdrop that helps us make sense of her career and appreciate the originality of her works, further cementing her place in the history of American landscape architecture. Above all, it is an absorbing and inspiring read. ●

ELISSA ROSENBERG IS AN ASSOCIATE PROFESSOR IN THE GRADUATE URBAN DESIGN PROGRAM AT BEZALEL ACADEMY OF ARTS AND DESIGN IN JERUSALEM.

WORKING LANDSCAPES

Pine Ranch - field, cattle chute, windmill, ranch house, and corral. Library of Congress, Prints and Photographs Division, HALS AZ-4-18(CT). James W. Rosenthal, photographer.

SUBMISSION DEADLINE: JULY 31, 2023

AWARDS PRESENTED: OCTOBER 27-30, 2023

DURING THE ASLA CONFERENCE ON LANDSCAPE ARCHITECTURE IN MINNEAPOLIS

The mission of the Historic American Landscapes Survey (HALS) is to document historic landscapes of the United States. For the 14th annual **HALS Challenge competition**, we invite you to document ***Working Landscapes***. Historic "working" or "productive" landscapes may be agricultural or industrial and unique or traditional. Some topical working landscapes convey water for irrigation or provide flood control. Please focus your short format HALS historical report on the landscape as a whole and not on a building or structure alone.

For information on how to prepare a HALS short format history visit NPS.GOV/HDP/COMPETITIONS/HALS_CHALLENGE.HTML

To learn more about HALS visit ASLA.ORG/HALS

NATIONAL PARK SERVICE

LIBRARY
LIBRARY OF CONGRESS

American Society of
Landscape Architects

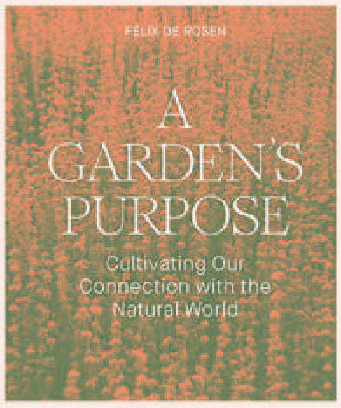
BOOKS OF INTEREST

STRANGE BEAUTY, FANTASY, AND WONDERMENT IN GARDENS.

COMMON PLACE

BY SCOTT ROSSI; RICHMOND, VIRGINIA, AND LONDON: POMEGRANATE PRESS AND GUEST EDITIONS, 2022; 72 PAGES, $32.

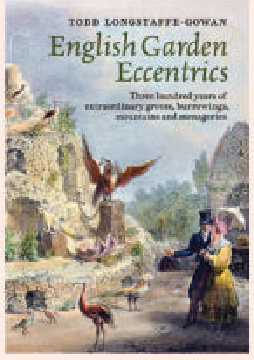
A sunbather sprawled on a stone bench. Lovers embracing atop a boulder. A cosplay knight surrounded by ivy. Ice, smoke, and graffiti. The Brooklyn-based photographer Scott Rossi captures the intimate and ephemeral relationships between New Yorkers—human and animal—and Central Park. This slim collection of images is a meditation on Olmsted's vision for a natural and democratic park. Rossi, through his lens and compositions, makes an argument for the value of public space in all its strange beauty. ●



A GARDEN'S PURPOSE: CULTIVATING OUR CONNECTION WITH THE NATURAL WORLD

BY FELIX DE ROSEN; NEW YORK: PRINCETON ARCHITECTURAL PRESS, 2023; 192 PAGES, $29.95.

Ecological designer, artist, and author, Felix de Rosen answers the titular prompt of *A Garden's Purpose* through three main sections dotted with photographic examples: Wonder, Design, and Habitat. While the first is an inspirational ode to gardens everywhere, and the second focuses on the tectonics of fences, paths, and slopes, it is the last that proves the most polemical. Discussing plants from both a color/shape and ecological perspective, de Rosen also argues that gardens can grow community connections to wildlife and people. ●


TODD LONGSTAFFE-GOWAN
English Garden Eccentrics
Three hundred years of extraordinary groves, burrowings, mountains and menageries

ENGLISH GARDEN ECCENTRICS: THREE HUNDRED YEARS OF EXTRAORDINARY GROVES, BURROWINGS, MOUNTAINS, AND MENAGERIES

BY TODD LONGSTAFFE-GOWAN; LONDON: PAUL MELLON CENTRE FOR STUDIES IN BRITISH ART, 2022; 400 PAGES, $40.

There's more than a touch of whimsy in *English Garden Eccentrics,* a collection of 21 well-researched mini-histories of quirky gardeners and their fantastical plans. The landscape architect and historian Todd Longstaffe-Gowan is interested in "gardens that function as a form of autobiography." Chapter titles such as "Lady Broughton's 'Miniature Copy of the Swiss Glaciers'" or "Dr Phené's 'Senseless and Bewildering Accumulation of Incongruous Things'" reinforce this approach while offering detailed descriptions of ferns, topiary, and grotesque rockwork drawn from historical accounts and illustrations. ●

The Cultural Landscape Foundation *presents*

Garden Dialogues

The Hill, Pasadena, CA. Photo by Charles A. Birnbaum (top); Heritage Respite, Bronxville, NY. Photo courtesy Renée Byers Landscape Architect (bottom).

What are the secrets to great gardens?

Garden Dialogues provide exclusive access for small groups to visit some of today's most exceptional gardens. The 2023 Season features all new destinations coast-to-coast where the owners and their landscape architects explore the creative process, the give and take, and the collaboration that yields a successful design.

Learn the secrets to creating great gardens – part of TCLF's 25th Anniversary Season of Events.

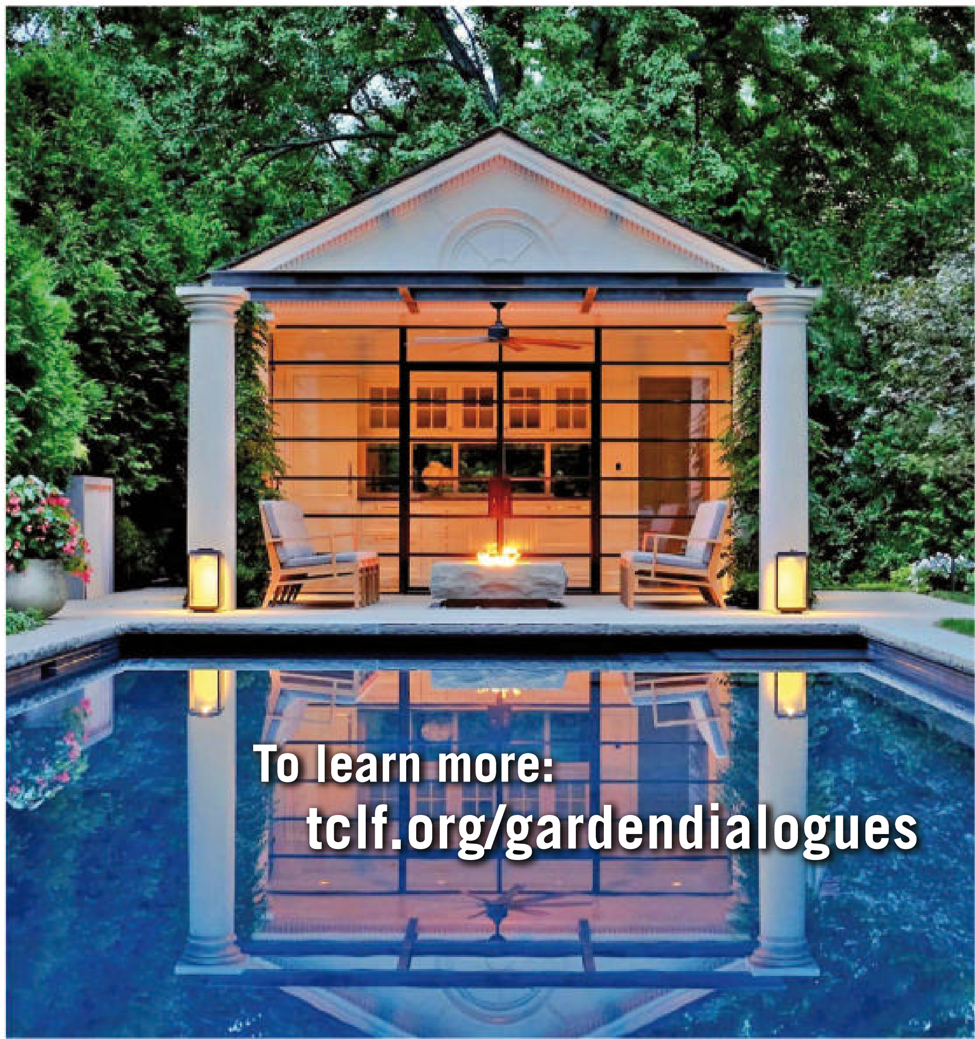
Register Now. Space is Limited.

Presenting Sponsors

ABC STONE
BARTLETT TREE EXPERTS SCIENTIFIC TREE CARE SINCE 1907
LAPITEC NATURALLY ITALIAN
VERMONT QUARRIES CORP. Home of VERMONT DANBY MARBLE Quarrying & Manufacturing

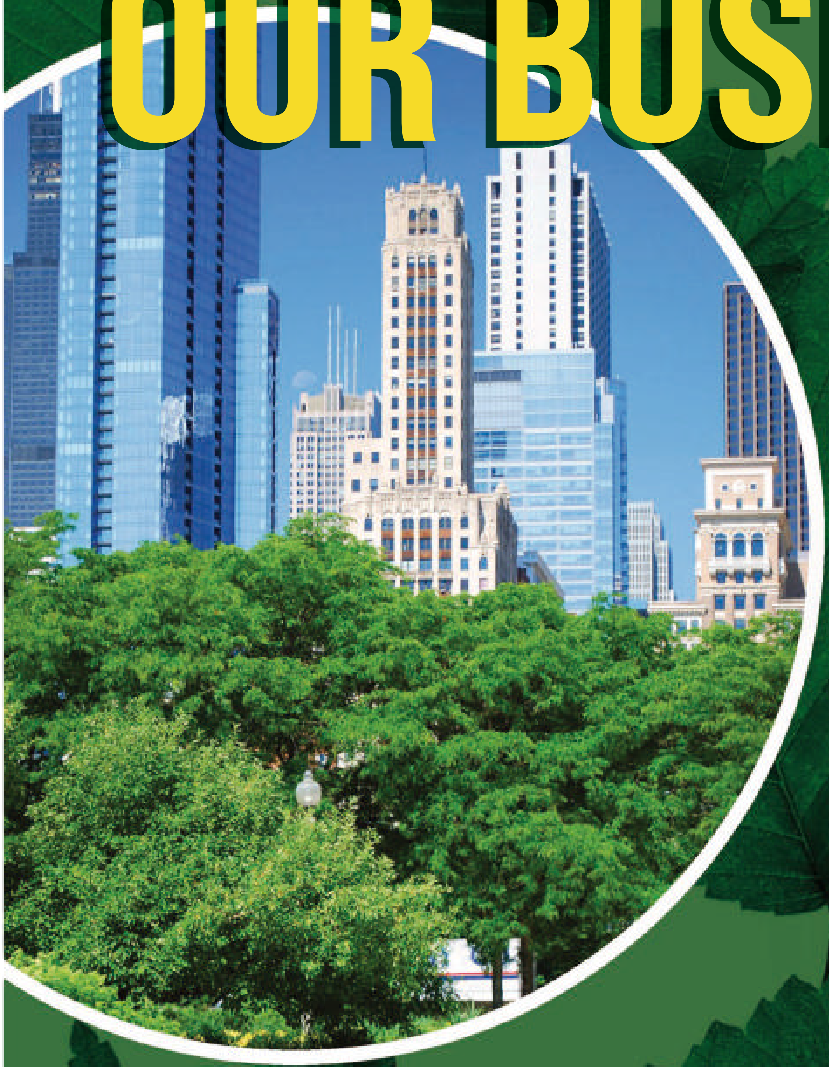
Educational Partner

American Society of Landscape Architects



To learn more:
tclf.org/gardendialogues

WE'VE MADE YOUR TREES OUR BUSINESS.



EXPERT TREE CARE FOR 115 YEARS — AND GROWING.

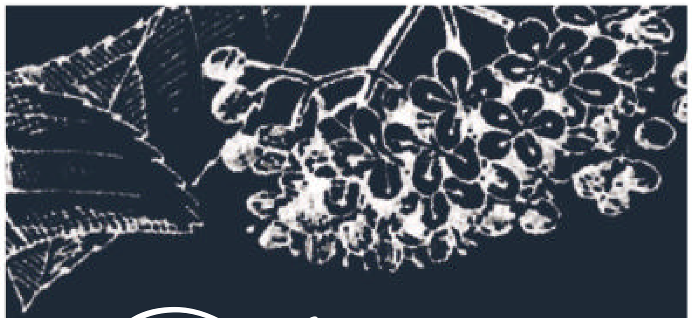
Ulmus parvifolia, better known as the Lacebark Elm, is just one of the thousands of species we specialize in. For 115 years, our family-owned company has brought a rare mix of groundbreaking science, award-winning safety practices, and global resources to every tree and shrub care task at hand. And at the heart of our success are our people — experts who know and champion every tree, no matter the species. Discover how our passion is inspiring one beautiful property after another.

BARTLETT TREE EXPERTS
SCIENTIFIC TREE CARE SINCE 1907

Call **877 BARTLETT** or visit **bartlett.com**

PRUNING | FERTILIZATION | CABLING & BRACING
INSECT & DISEASE MANAGEMENT | TREE INSPECTIONS
STORM DAMAGE | LIGHTNING PROTECTION | REMOVALS

The F.A. Bartlett Tree Expert Company



Moonlit Lace®
Viburnum

Viburnum hybrid 'sPg-3-024'

EASY. EVERGREEN. ELEGANT.

Heat-tolerant, glossy green foliage, red stems, and lacy white flowers offer beautiful color and texture to the landscape. This uniquely compact Viburnum provides an easy solution for mass plantings, low borders, and hedges.

star® ROSES and PLANTS

Find a Wholesale Grower
near you: 1-800-457-1859
www.StarRosesandPlants.com

GET THE ORIGINAL URBANTIME | 100% MADE IN ITALY

Discover the new Amalfi.015 outdoor chairs
www.viaseating.com/outdoor

URBANTIME DIEMMEBI
via SEATING

PUBLIC RESTROOM COMPANY
Building Better Places To Go.SM

Elevate your design plan with buildings that match the landscape.

- Turnkey prefab restrooms and park buildings, standard floor plans to custom designs
- Architecturally flexible floor plans allow for additional space (storage, concessions, etc.)
- Vandal resistant fixtures and doors
- Antimicrobial components for safety
- Natural ventilation and non-porous, water resistant concrete floors to reduce odors
- Over 20 years experience as a design, build, and installation firm

Available through direct purchase or cooperative purchasing

Sourcewell Awarded Contract
Contract # 081721-PRM

BuyBoard® Cooperative Purchasing

Call for a Quote (888) 888-2060 | www.publicrestroomcompany.com

Creating Premium
Outdoor Spaces

RENSON®
Creating healthy spaces

Connect with a Dealer in your area https://renson.net/en-us

HUNTCO
SITE FURNISHINGS

IMAGE: THOMASTEAL.COM

BIKE LOCKERS &
BURNSIDE BIKE CORRAL
MULTNOMAH UNIVERSITY

TWITTER
@HuntcoSupply

INSTAGRAM
@Huntco

LEARN MORE AT HUNTCO.COM

poligon®

open air structures

walkway covers • amphitheaters
pavilions • trellises • canopies
farmers markets • fabric shade

poligon.com

Sourcewell
Awarded Contract
Contract # 012621-PPC

Reimagine the Outdoor Experience

BISON
Innovative Products

ROOFTOP DECKS | PLAZAS | GREEN ROOFS | POP-UP PARKS
WATER FEATURES | DECK SUPPORTS | WOOD TILES
CONCRETE & STONE | 2CM PAVERS | PAVER SUPPORT TRAYS
ARTIFICIAL TURF | GRATING | SITE FURNISHINGS

Ugly QR code. **Beautiful Decks.**
bisonip.com | 800.333.4234

Interface Inc. Headquarters, Atlanta GA | architect: Perkins & Will | photographer: ©Nick Merrick

bringing families together

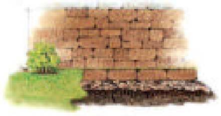
solus
Fire & Water

1-877-255-3146
solusdecor.com info@solusdecor.com

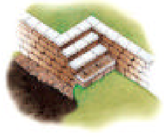
THE ORIGINAL *solid, pinned retaining wall systems*

If your client wants more than an ordinary retaining wall, select VERSA-LOK. No other wall system gives you the same combination of aesthetics, installation ease and performance. To find out why landscape architects prefer VERSA-LOK, call **(800) 770-4525** or visit **versa-lok.com**.

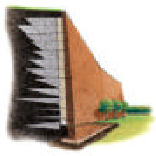
Freestanding Walls



Mosaic Random Face Patterns



Fully Integrated Stairs



Random-Pattern Tall Walls

Freestanding Columns

Multi-Angle Corners

VERSA-LOK®
Retaining Wall Systems
Solid Solutions.™

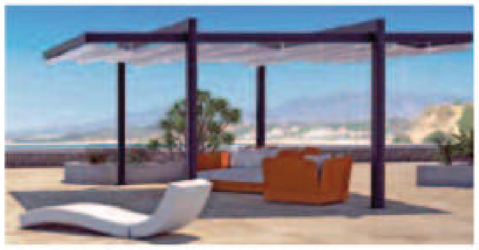
© 2023 Kiltie Corporation • Oakdale, MN

CADdetails

Complete Modular Planter Systems

Internal frame, Rugged liners with advanced drainage
Anodized aluminum, No paint or powdercoat to fail
Lifetime Structural Warranty

DeepStreamDesign.com 305-857-0466



Nationwide Dealer Distribution
and Local Installation

SUNAIR®
AWNINGS & SOLAR SCREENS

SINCE 1880
BALTIMORE, MD &
PHOENIX, AZ

ADJUSTABLE LOUVERED AND FABRIC PERGOLA®
RETRACTABLE STRUCTURES
For Your clients Home or Business

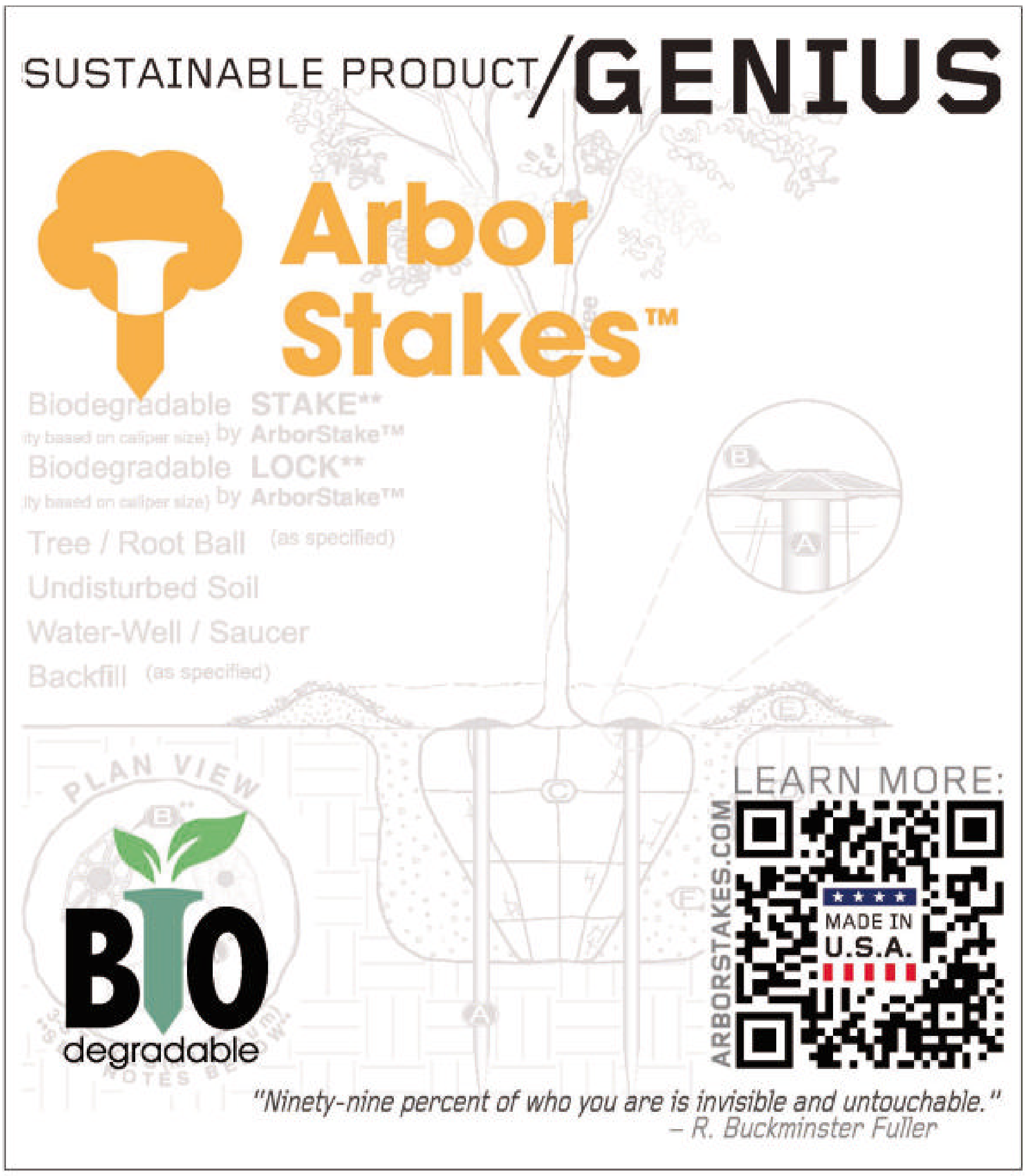
For more information or a dealer near you call 800-548-0408

www.sunairawnings.com | info@sunairawnings.com

CREATING FOG WORLDWIDE SINCE 1979

Atomizing Systems

201.447.1222 | www.coldfog.com | info@coldfog.com



SUSTAINABLE PRODUCT/GENIUS

Arbor Stakes™

Biodegradable STAKE**
ity based on caliper size) by ArborStake™
Biodegradable LOCK**
ity based on caliper size) by ArborStake™
Tree / Root Ball (as specified)
Undisturbed Soil
Water-Well / Saucer
Backfill (as specified)

PLAN VIEW

BIO degradable

LEARN MORE:
ARBORSTAKES.COM
MADE IN U.S.A.

"Ninety-nine percent of who you are is invisible and untouchable."
– R. Buckminster Fuller

POND LINERS

U.V. STABILIZED
LIGHTWEIGHT
& EASY TO HANDLE
CUSTOM FABRICATION
REINFORCED POLYETHYLENE
RESISTS PUNCTURE & TEARS

PERMALON®
DIVISION OF REEF INDUSTRIES, INC.
800 231 6074
reefindustries.com

Walpole Outdoors™

FENCES
PERGOLAS
ARBORS
GATES
TRELLISES
RAILINGS

DESIGN OUTSIDE EXPECTATIONS

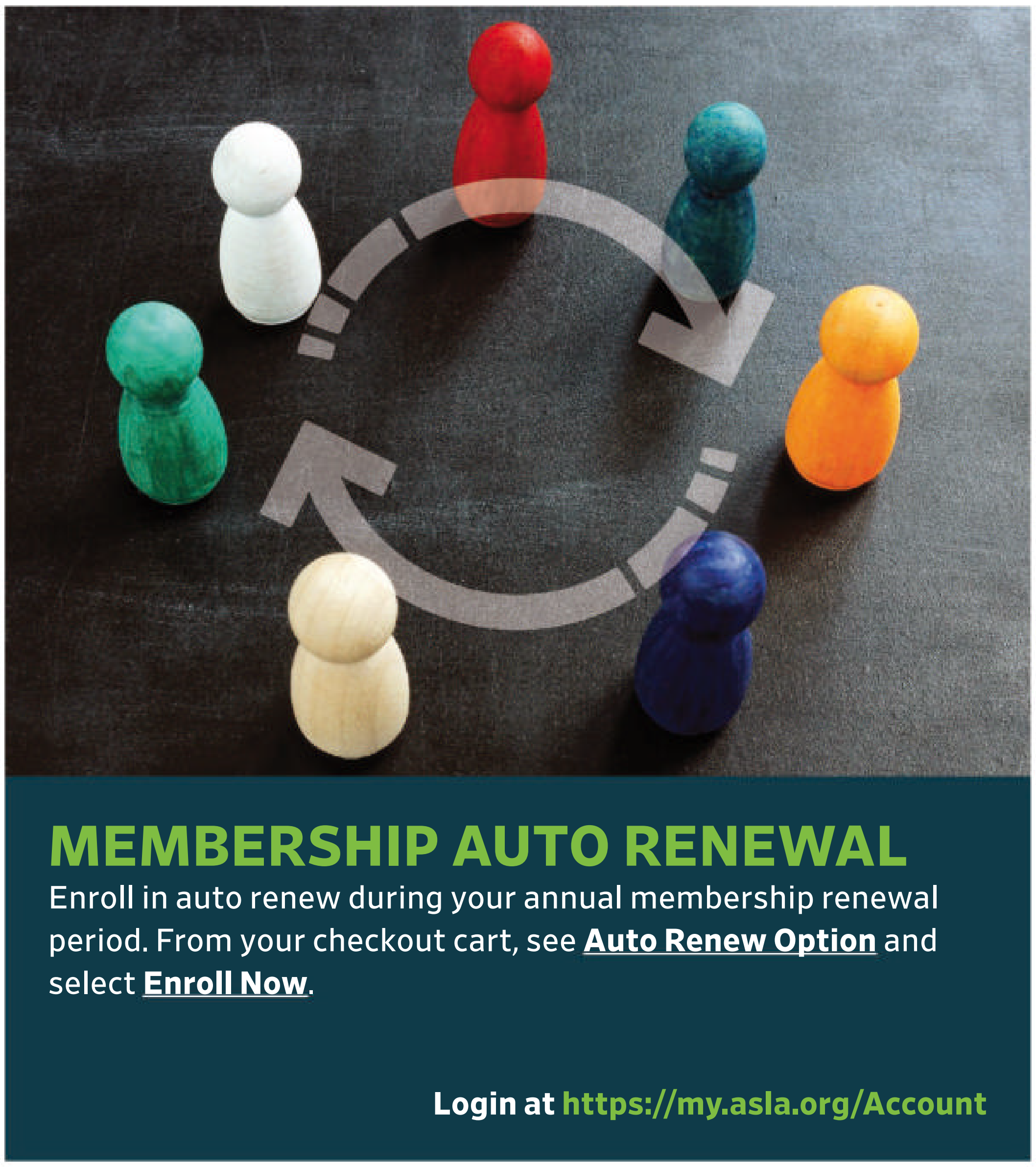
Learn more about how Walpole Outdoors can enhance and execute your work with total collaboration from concept to completion.

walpoleoutdoors.com | 866.593.0728

drift

The Finishing Touch to Every Landscape™

www.DriftRoses.com | *Find a wholesale grower near you: 1-800-457-1859*



MEMBERSHIP AUTO RENEWAL

Enroll in auto renew during your annual membership renewal period. From your checkout cart, see **Auto Renew Option** and select **Enroll Now**.

Login at https://my.asla.org/Account

Custom Pergola Kits

Engineered for life in the highest grade materials.
Beyond the ordinary, naturally!

trellisstructures.com
978.630.8787

trellis STRUCTURES

HAND WASH STATIONS
BROUGHT TO YOU BY MOST DEPENDABLE FOUNTAINS, INC.™

- FREE STANDING & WALL MOUNT
- CUSTOM BUILT TO ORDER
- AVAILABLE IN 16 DIFFERENT COLORS

MOST DEPENDABLE FOUNTAINS, INC.™
901-867-0039
WWW.MOSTDEPENDABLE.COM

Petersen Mfg. Co., Inc
Concrete and Metal Site Furnishings

Quality Products since 1913
Benches . Tables . Bollards . Planters . Waste Receptacles
Ash Urns . Drinking Fountains . Security Barriers

800-832-7383 . www.Petersenmfg.com

LumberCon

Reinforced, High Strength Concrete Lumber

Handles like wood, performs like concrete

LumberConUSA.com

PET WASTE
TRANSMITS DISEASE
LEASH AND CLEAN UP AFTER YOUR PET
PLEASE KEEP THIS AREA CLEAN
DOGIPOT

DOGIPOT®

BEST SELLER:
ALUMINUM DOGIPOT® PET STATION
#1003-L

✓ Most Trusted ✓ Superior Value
✓ Broadest Selection

Contact us today to keep your dog friendly areas cleaner!

DOGIPOT.COM | 800.364.7681

@DOGIPOT

Maintenance-free, solid core fencing

- 50 year warranty
- Solid material, this is not PVC
- Sustainable recycled HDPE contributing to LEED credits

Griffith Park, Los Angeles

URBANDESIGN FENCING

951-371-5792
www.UrbanDesignFencing.com
info@urbandesignfencing.com

DRIVABLE GRASS®

A Permeable and Flexible Concrete Paving System

Driveways | Parking | Fire Lanes | Utility Access
Pathways | Drainage Channels

SOIL RETENTION
Plantable concrete systems®

www.soilretention.com
800-346-7995

Custom Greenhouses

1-800-531-4769

Project in SC 26' W x 112 'L Glass Greenhouse

Gothic Arch Greenhouses

www.GothicArchGreenhouses.com

THE BACK / ADVERTISER INDEX

ADVERTISING SALES
636 Eye Street NW
Washington, DC 20001-3736
202-216-2325
202-478-2190 Fax
advertising@asla.org

SENIOR PRODUCTION MANAGER
Laura L. Iverson
202-216-2341
liverson@asla.org

ADVERTISER	WEBSITE	PHONE	PAGE #
APE Studio c/o Richter Spielgeräte	apeoriginal.com	212-213-6694	6
Aquatix by Landscape Structures	playlsi.com	877-632-0503	39
ArborStakes	arborstakes.com	214-810-6678	152
Archatrak Inc.	archatrak.com	406-551-7482	18
ASLA EXPO Promotion	advertise.asla.org/expo	202-216-2326	166-167
Atomizing Systems, Inc.	coldfog.com	888-265-3364	152
Bartlett Tree Expert Company	bartlett.com	877-227-8538	146
BCI Burke Co. Inc.	bciburke.com	920-921-9220	2-3
Beam Clay/Partac Peat Corporation	partac.com	800-247-2326	162
Belden Brick Co.	beldenbrick.com	330-456-0031	73, 160
Bison Innovative Products by UCP	bisonip.com	888-412-4766	149
Campania International, Inc.	campaniainternational.com	215-541-4627	C2-1, 158
Cell-Tek Geosynthetics, LLC	celltekdirect.com	410-721-4844	163
Columbia Cascade Company	timberform.com	800-547-1940	159, 161, 163, C4
DeepStream Designs	deepstreamdesigns.com	305-857-0466	151
Dogipot, a PlayCore Company	dogipot.com	800-364-7681	155
Doty & Sons Concrete Products	dotyconcrete.com	800-233-3907	158
DuMor, Inc.	dumor.com	800-598-4018	11, 164
Earthscape	earthscapeplay.com	877-269-2972	63, 161
emuamericas, llc	emuamericas.com	800-726-0368	49, 163
Endicott Clay Products	endicott.com	402-729-3315	119
Equiparc	equiparc.com	800-363-9264	12, 158
Ernst Conservation Seeds	ernstseed.com	800-873-3321	160
Forms+Surfaces	forms-surfaces.com	800-451-0410	9, 161
Goldenteak/The Wood Carver	goldenteak.com	978-689-4041	159
Gothic Arch Greenhouses	gothicarchgreenhouses.com	251-471-5238	155
Green Theory Design Inc.	greentheorydist.com	604-475-7002	160
greenscreen	greenscreen.com	800-450-3494	35, 162
HADDONSTONE	haddonstone.com	866-733-8225	13
Hanover Architectural Products, Inc.	hanoverpavers.com	717-637-0500	47
Huntco Supply, LLC	huntco.com	503-224-8700	148
Hunter Industries Incorporated	hunterindustries.com	760-304-7499	33, 160
Intense Lighting, a Leviton Company	intenselighting.com	714-422-3960	139
Invisible Structures, Inc.	invisiblestructures.com	303-395-1803	118
Iron Age Designs	ironagegates.com	206-276-0925	45, 161
Ironsmith, Inc.	ironsmith.biz	800-338-4766	17, 163
Kafka Granite LLC	kafkagranite.com	715-316-2792	141, 162
Keystone Ridge Designs, Inc.	keystoneridgedesigns.com	800-284-8208	41
Kingsley Bate, Ltd.	kingsleybate.com	703-361-7000	57, 163
Koolfog, Inc.	koolfog.com	760-321-9203	164
Landscape Forms	landscapeforms.com	800-430-6205	7, 27
Landscape Structures, Inc.	playlsi.com	888-438-6574	21, 159
LEGI/Outerspace Landscape Furnishings	legifences-us.com	858-729-3888	164
LumberCon USA	lumberconusa.com	570-274-0400	154
Madrax	madrax.com	800-448-7931	162
Maglin Site Furniture Inc.	maglin.com	800-716-5506	37
MAMAGREEN LLC	mamagreen.com	312-877-5155	16
mmcité street furniture	mmcite.com	704-576-2224	50
Most Dependable Fountains	mostdependable.com	800-552-6331	154
National Park Service - HALS Challenge	nps.gov/history/hdp/hals	202-208-3818	143
Nitterhouse Masonry Products, LLC	nitterhouse.com	717-267-4500	43
Old Town Fiberglass	oldtownfiberglass.com	714-633-3732	71
Paloform	paloform.com	888-823-8883	74
Permaloc Aluminum Edging	permaloc.com	800-356-9660	65
Petersen Concrete Leisure Products	petersenmfg.com	800-832-7383	154
Pine Hall Brick Co., Inc.	americaspremierpaver.com	800-334-8689	53, 162
Poligon, A Product of PorterCorp.	poligon.com	616-399-1963	148
Progress Profiles America, Inc.	progressprofiles.com	973-584-2650	51
Reef Industries, Inc.	reefindustries.com	800-231-6074	152
Renson, Inc.	renson-outdoor.com	310-745-8905	148
Salsbury Industries	mailboxes.com	800-624-5269	61, 162
Shade Systems, Inc.	shadesystemsinc.com	800-609-6066	15
Shelter Outdoor	shelteroutdoor.com	855-768-4450	163
Sitecraft	site-craft.com	800-221-1448	137
Sitescapes, Inc.	sitescapesonline.com	402-421-9464	55, 159
Soil Retention Products	soilretention.com	760-966-6090	155
Solistone	solistone.com	800-758-2119	162
Solus Décor, Inc.	solusdecor.com	877-255-3146	150
South Coast Wholesale	southcoastwholesale.com	800-326-7256	163
Spring Meadow Nursery Inc. (Proven Winners)	provenwinners.com	800-633-8859	25
Star Roses and Plants	starrosesandplants.com	800-457-1859	146, 156
Streetlife	streetlife.nl	646-583-2937	31
Sunair Awnings & Solar Screens	sunairawnings.com	800-548-0408	151
Sure-Loc Aluminum Edging	surelocedging.com	800-787-3562	135
Teak Warehouse	teakwarehouse.com	800-343-7707	59
The Cultural Landscape Foundation	tclf.org	202-483-0553	145
The Public Restroom Company	publicrestroomcompany.com	888-888-2060	147
Thomas Steele	thomas-steele.com	800-448-7931	120
Tournesol Siteworks	tournesolsiteworks.com	800-542-2282	23, 164
Trellis Structures	trellisstructures.com	888-285-4624	154
Tulane School of Architecture	tulane.edu	504-865-5389	69
Urban Design Fencing	urbandesignfurniture.com	877-241-2490	155
U.S. Green Building Council	usgbc.org	202-552-1369	165
Versa-Lok Retaining Wall System	versa-lok.com	800-770-4525	150, 162
Via Seating	viaseating.com	800-433-6614	147
Victor Stanley, Inc.	victorstanley.com	301-855-8300	158, C3
Walpole Outdoors LLC	walpolewoodworkers.com	800-343-6948	153
Wayne Tyler, Inc.	waynetyler.com	866-413-7241	72
WunderCovers	wundercovers.com	775-400-2883	29

THE BACK /

ADVERTISERS BY PRODUCT CATEGORY

ASSOCIATION/FOUNDATION

ASLA EXPO Promotion	202-216-2326	166-167
National Park Service - HALS Challenge	202-208-3818	143
The Cultural Landscape Foundation	202-483-0553	145
U.S. Green Building Council	202-552-1369	165

DRAINAGE AND EROSION

Cell-Tek Geosynthetics, LLC	410-721-4844	163
Iron Age Designs	206-276-0925	45, 161
Ironsmith, Inc.	800-338-4766	17, 163

EDUCATION

Tulane School of Architecture	504-865-5389	69

FENCES/GATES/WALLS

LEGI/Outerspace Landscape Furnishings	858-729-3888	164
Urban Design Fencing	877-241-2490	155
Versa-Lok Retaining Wall System	800-770-4525	150, 162

GREEN ROOFS/LIVING WALLS

greenscreen	800-450-3494	35, 162

IRRIGATION

Hunter Industries Incorporated	760-304-7499	33, 160

LIGHTING

Intense Lighting, a Leviton Company	714-422-3960	139
Wayne Tyler, Inc.	866-413-7241	72

LUMBER/DECKING/EDGING

Bison Innovative Products by UCP	888-412-4766	149
LumberCon USA	570-274-0400	154
Permaloc Aluminum Edging	800-356-9660	65
Sure-Loc Aluminum Edging	800-787-3562	135

OUTDOOR FIRE AND WATER FEATURES

Most Dependable Fountains	800-552-6331	154
Paloform	888-823-8883	74
Solus Décor, Inc.	877-255-3146	150

OUTDOOR FURNITURE

Goldenteak/The Wood Carver	978-689-4041	159
Kingsley Bate, Ltd.	703-361-7000	57, 163
MAMAGREEN LLC	312-877-5155	16
Teak Warehouse	800-343-7707	59

PARKS AND RECREATION

APE Studio c/o Richter Spielgeräte	212-213-6694	6
BCI Burke Co. Inc.	920-921-9220	2-3
Beam Clay/Partac Peat Corporation	800-247-2326	162
Dogipot, a PlayCore Company	800-364-7681	155
Earthscape	877-269-2972	63, 161
Landscape Structures, Inc.	888-438-6574	21, 159

PAVING/SURFACING/MASONRY STONE/METALS

Archatrak Inc.	406-551-7482	18
Belden Brick Co.	330-456-0031	73, 160
Endicott Clay Products	402-729-3315	119
Hanover Architectural Products, Inc.	717-637-0500	47
Invisible Structures, Inc.	303-395-1803	118
Kafka Granite LLC	715-316-2792	141, 162
Nitterhouse Masonry Products, LLC	717-267-4500	43
Pine Hall Brick Co., Inc.	800-334-8689	53, 162
Progress Profiles America, Inc.	973-584-2650	51
Soil Retention Products	760-966-6090	155
Solistone	800-758-2119	162
WunderCovers	775-400-2883	29

PLANTERS/SCULPTURES/GARDEN ACCESSORIES

Campania International, Inc.	215-541-4627	C2-1, 158
Green Theory Design Inc.	604-475-7002	160
HADDONSTONE	866-733-8225	13
Old Town Fiberglass	714-633-3732	71
Tournesol Siteworks	800-542-2282	23, 164

PLANTS/SOILS/PLANTING MATERIALS

ArborStakes	214-810-6678	152
Bartlett Tree Expert Company	877-227-8538	146
Ernst Conservation Seeds	800-873-3321	160
South Coast Wholesale	800-326-7256	163
Spring Meadow Nursery Inc. (Proven Winners)	800-633-8859	25
Star Roses and Plants	800-457-1859	146, 153

STREET FURNISHINGS

Columbia Cascade Company	800-547-1940	159, 161, 163, C4
DeepStream Designs	305-857-0466	151
Doty & Sons Concrete Products	800-233-3907	158
DuMor, Inc.	800-598-4018	11, 164
emuamericas, llc	800-726-0368	49, 163
Equiparc	800-363-9264	12, 158
Forms+Surfaces	800-451-0410	9, 161
Huntco Supply, LLC	503-224-8700	148
Keystone Ridge Designs, Inc.	800-284-8208	41
Landscape Forms	800-430-6205	7, 27
Madrax	800-448-7931	162
Maglin Site Furniture Inc.	800-716-5506	37
mmcité street furniture	704-576-2224	50
Petersen Concrete Leisure Products	800-832-7383	154
Salsbury Industries	800-624-5269	61, 162
Sitecraft	800-221-1448	137
Sitescapes, Inc.	402-421-9464	55, 159
Streetlife	646-583-2937	31
The Public Restroom Company	888-888-2060	147
Thomas Steele	800-448-7931	120
Via Seating	800-433-6614	147
Victor Stanley, Inc.	301-855-8300	158, C3

STRUCTURES

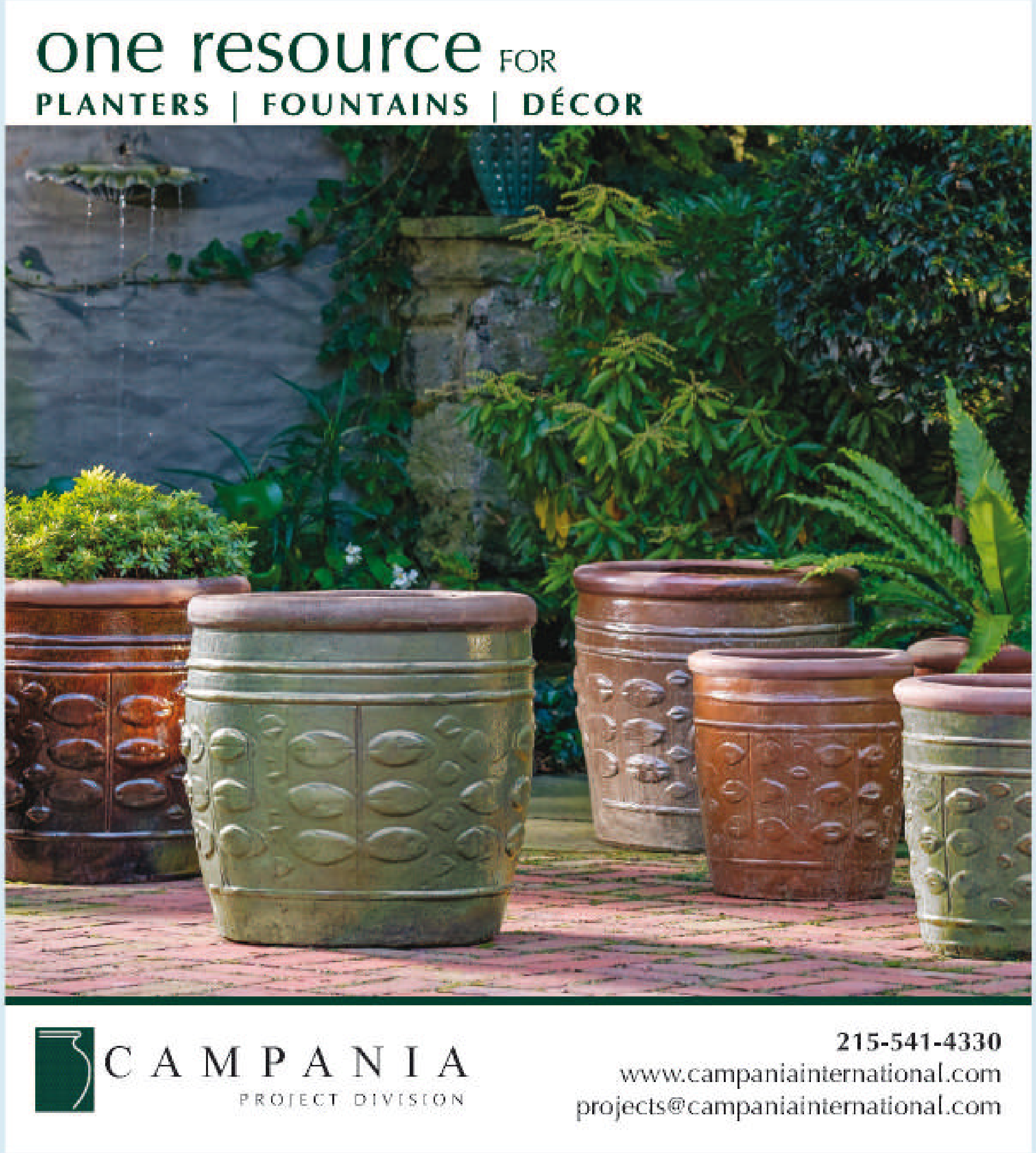
Gothic Arch Greenhouses	251-471-5238	155
Poligon, A Product of PorterCorp.	616-399-1963	148
Renson, Inc.	310-745-8905	148
Shade Systems, Inc.	800-609-6066	15
Shelter Outdoor	855-768-4450	163
Sunair Awnings & Solar Screens	800-548-0408	151
Trellis Structures	888-285-4624	154
Walpole Outdoors LLC	800-343-6948	153

WATER MANAGEMENT AND AMENITIES

Aquatix by Landscape Structures	877-632-0503	39
Atomizing Systems, Inc.	888-265-3364	152
Koolfog, Inc.	760-321-9203	164
Reef Industries, Inc.	800-231-6074	152

Equiparc

Create an
experience...



one resource FOR
PLANTERS | FOUNTAINS | DÉCOR

CAMPANIA
PROJECT DIVISION

215-541-4330
www.campaniainternational.com
projects@campaniainternational.com

THE STELLA OF SUNNE™ COLLECTION

It's hardest at work
when you're most at rest.

VICTOR STANLEY®
Create a timeless moment.®

US Patent D899,802 S.

VICTORSTANLEY.COM

CALL TODAY!
800-233-3907

Doty & Sons
Concrete Products

CUSTOM CURVED BENCHES

DOTYCONCRETE.COM
QUALITY PRODUCTS SINCE 1948

landscape structures®
PLAY CONNECTS US.
#playconnectsus

Connections. Our lives are built around them. At Landscape Structures,® we see it every day. Everywhere. This is the beauty of play. An extraordinary opportunity for interaction and imagination. Coordination and cooperation. Freedom and fun. Play lets us connect to who we are and see our wonder amplified in the connections we make. That's why, in everything we do, **we celebrate the beauty of play.**

To learn more visit us at playlsi.com/shapedbyplay

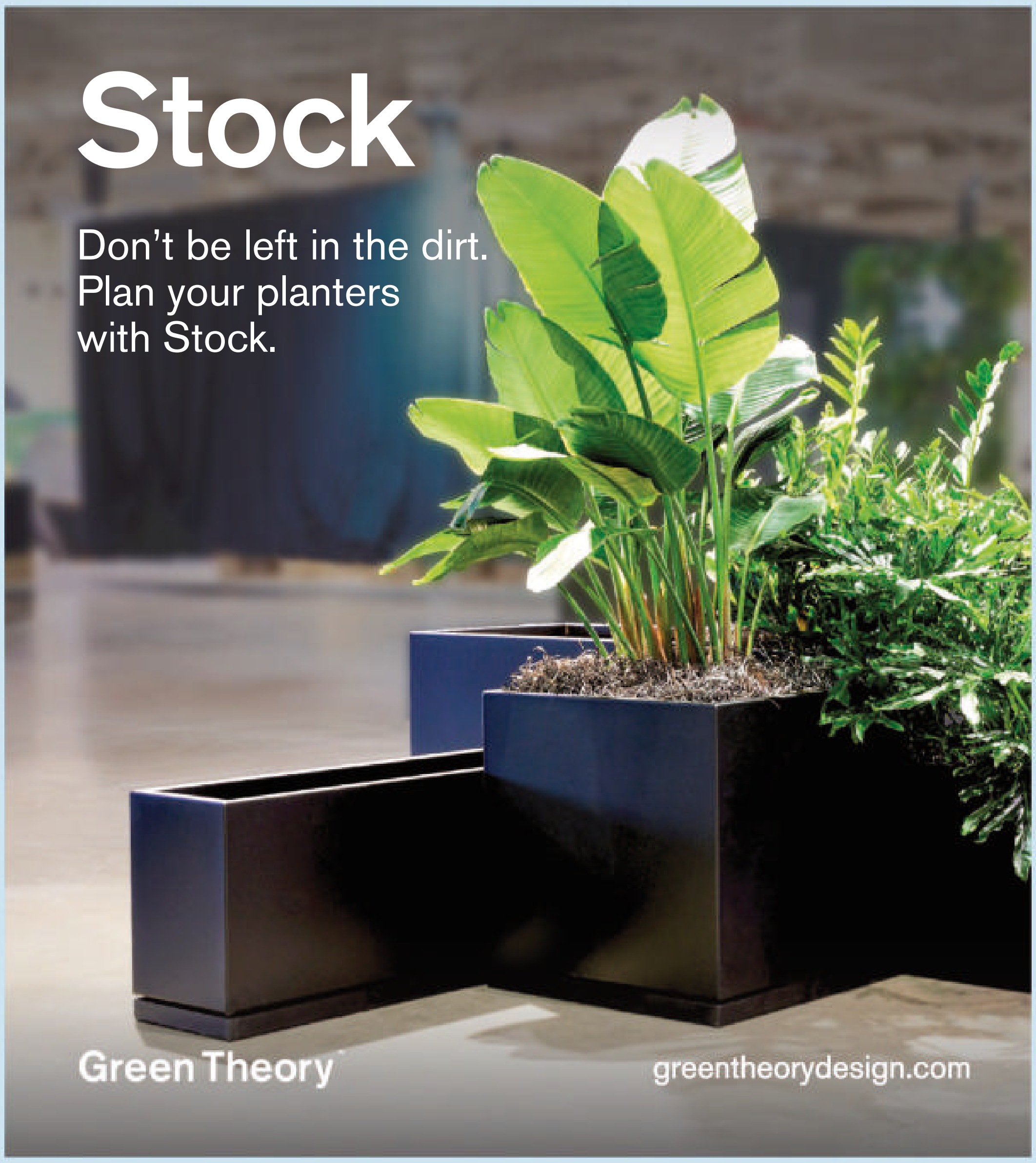
©2023 Landscape Structures Inc. All rights reserved.

Premium Teak Site Furnishings
From
GOLDENTEAK
Visit www.goldenteak.com/lam
for trade information

CITYVIEW
TABLES & CHAIRS
SITESCAPES

SiteScapesOnline.com
888-331-9464

Columbia Cascade
U.S. Patents D812,924 & D880,879
TimberForm Diller™
www.TimberForm.com®



Stock

Don't be left in the dirt.
Plan your planters
with Stock.

Green Theory

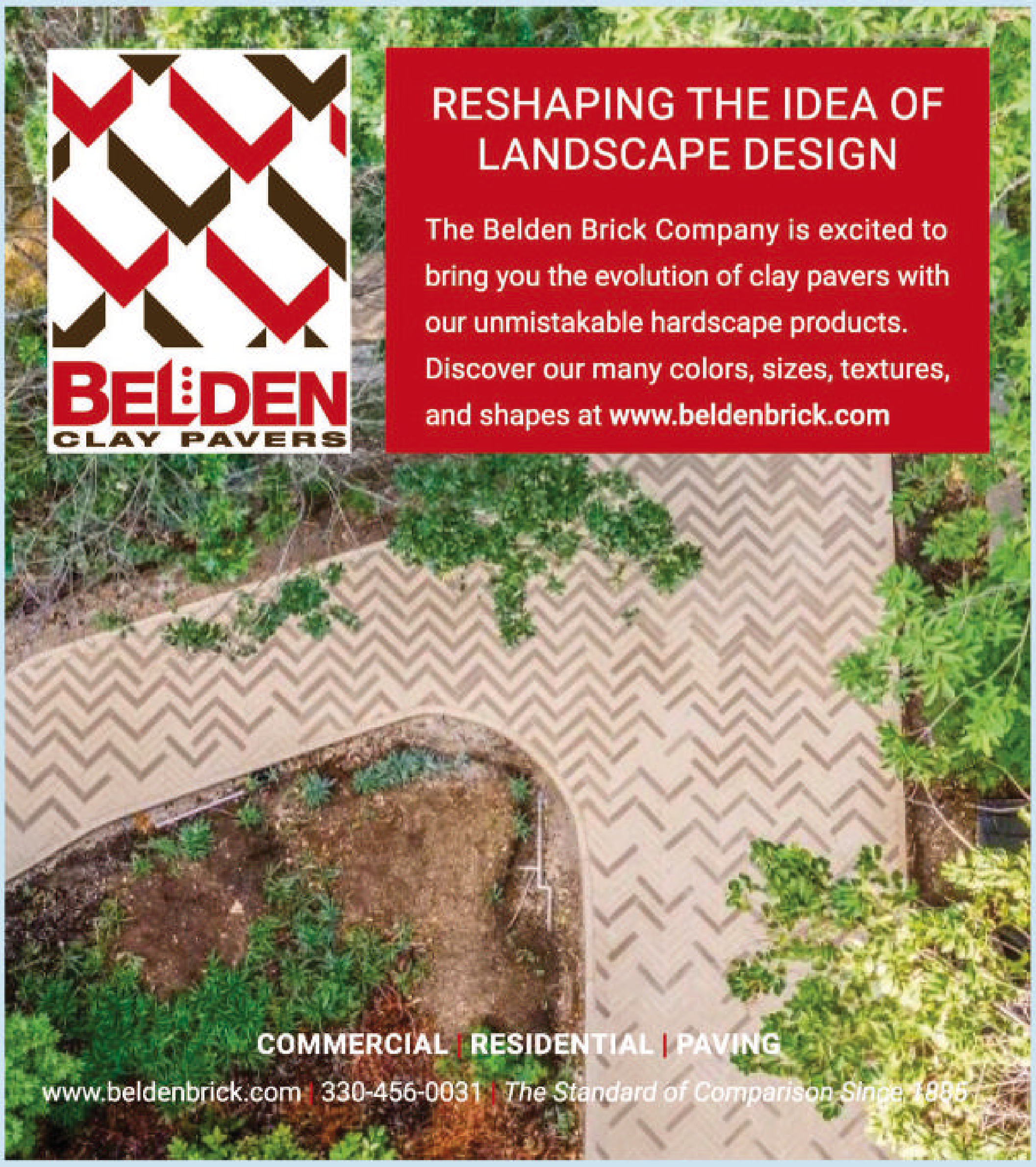
greentheorydesign.com

Your seed source
for native landscapes

https://ernstseed.co/adLAM

ERNST SEEDS

800-873-3321
sales@ernstseed.com



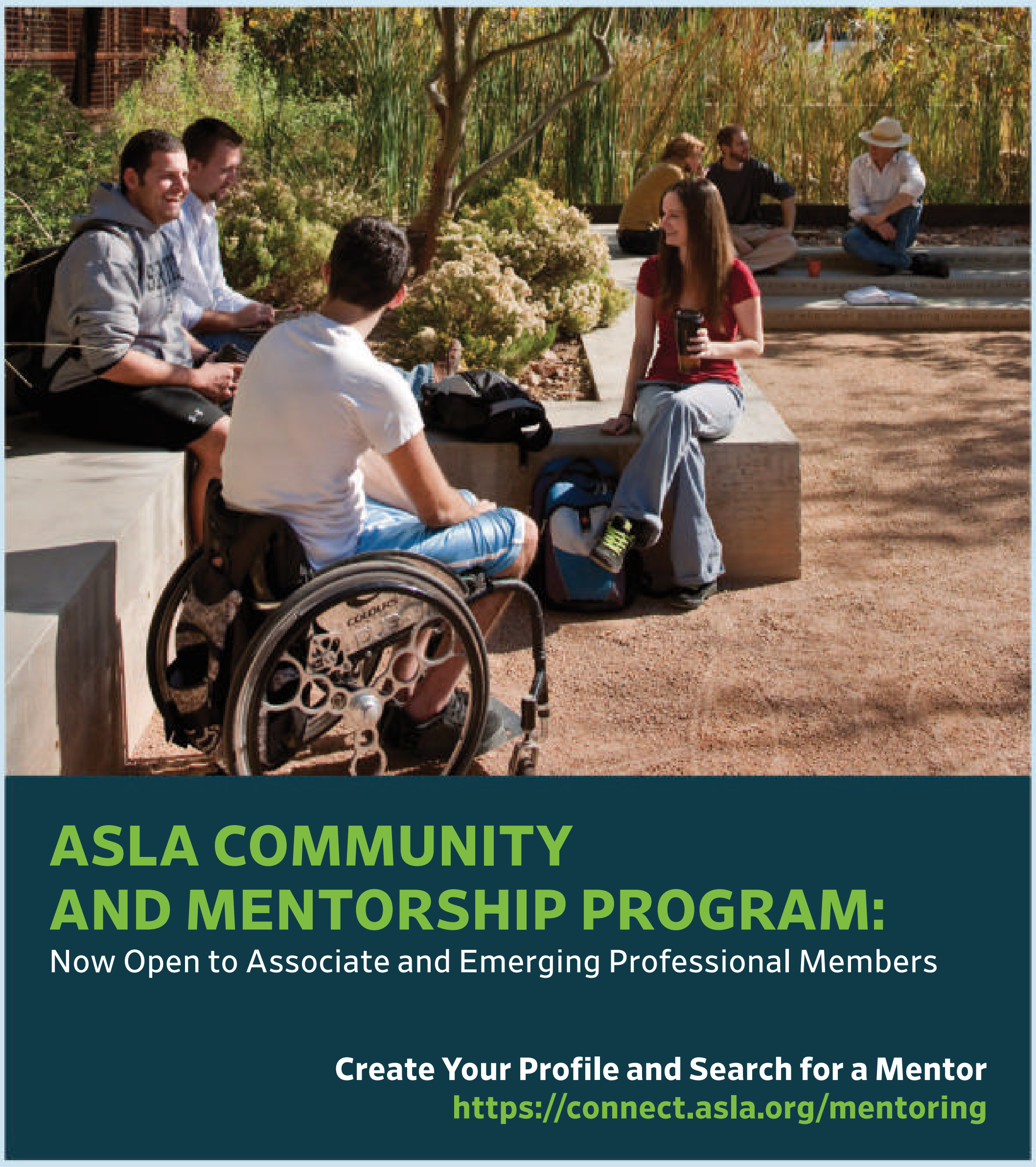
BELDEN
CLAY PAVERS

RESHAPING THE IDEA OF LANDSCAPE DESIGN

The Belden Brick Company is excited to bring you the evolution of clay pavers with our unmistakable hardscape products. Discover our many colors, sizes, textures, and shapes at **www.beldenbrick.com**

COMMERCIAL | RESIDENTIAL | PAVING

www.beldenbrick.com | 330-456-0031 | *The Standard of Comparison Since 1885*



ASLA COMMUNITY
AND MENTORSHIP PROGRAM:

Now Open to Associate and Emerging Professional Members

Create Your Profile and Search for a Mentor
https://connect.asla.org/mentoring

earthscape

earthscapeplay.com | info@earthscapeplay.com | 1.877.269.2972

FLOAT™ BENCHES

Effortless style. Impressive versatility.

FORMS+SURFACES

www.forms-surfaces.com

DECORATIVE DRAIN GRATES

- Variety of patterns & sizes
- Fits precast drain bodies
- Cast metal durability
- Easy to customize

RAIN
TRENCH
GRATE

IRON AGE DESIGNS

Visit our website to find out more
IRONAGEGRATES.COM
Made in the USA
Recycled/Recyclable Materials

LA CES
AIA Continuing Education Provider

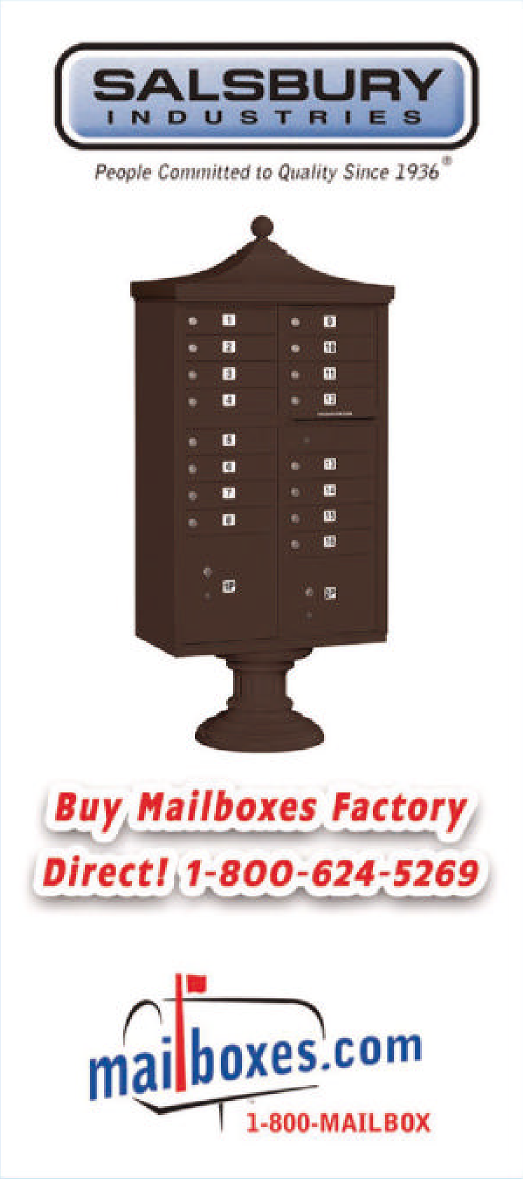
Columbia Cascade

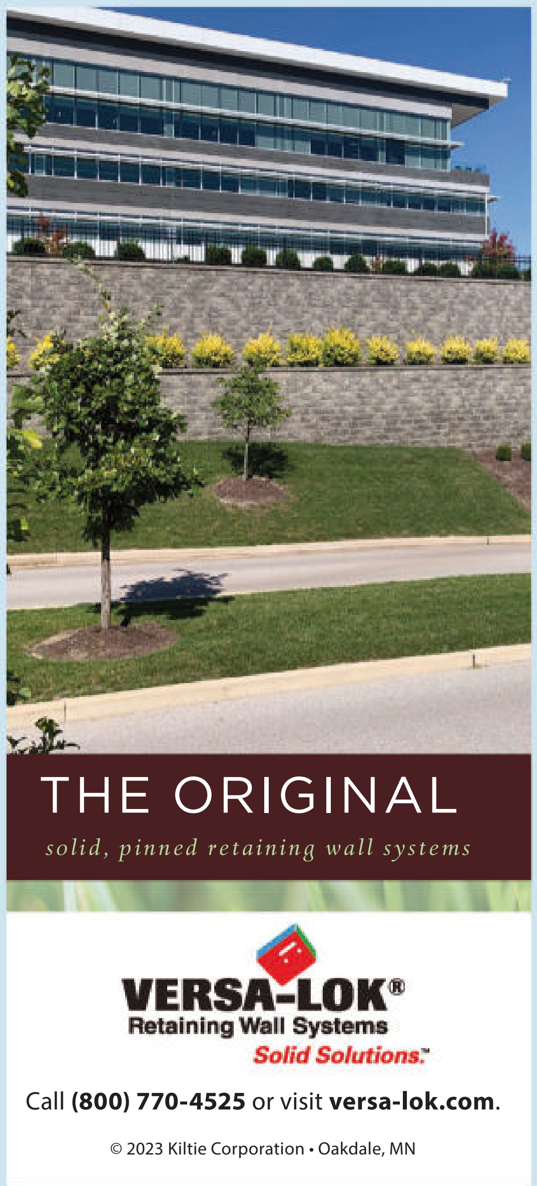
Butterfly Bollard™

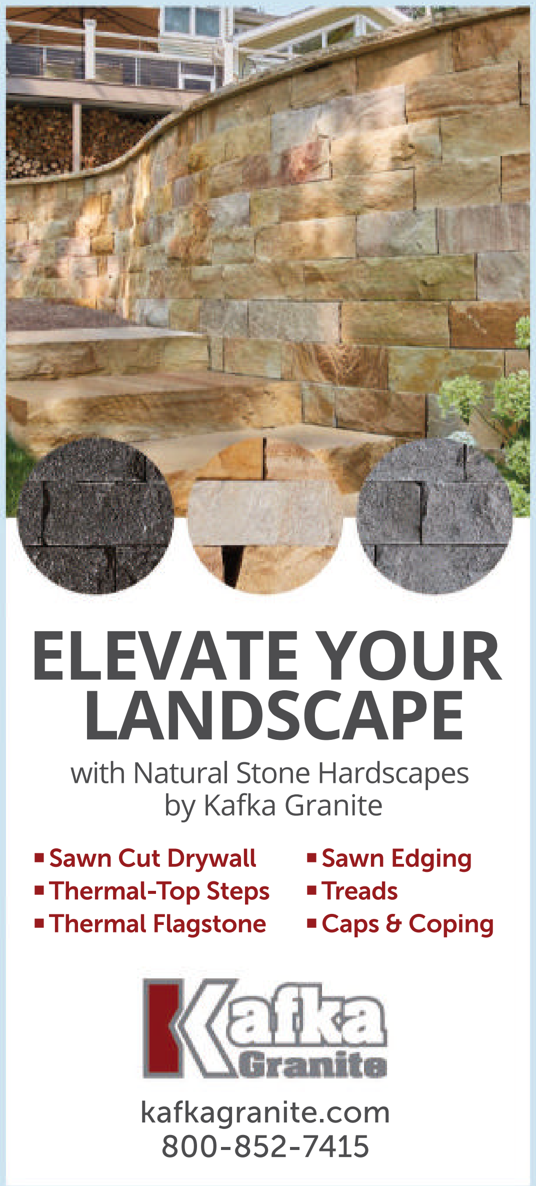
www.TimberForm®.com

BEAM CLAY®
THE STANDARD OF EXCELLENCE!
- Infield mixes, mound clays, and red warning tracks for ALL 50 STATES from regional plants nation-wide
- Over 10,000 sportsfield products for ALL SPORTS!
- SPECIAL CO-OP PRICING FOR ALL 50 STATES!

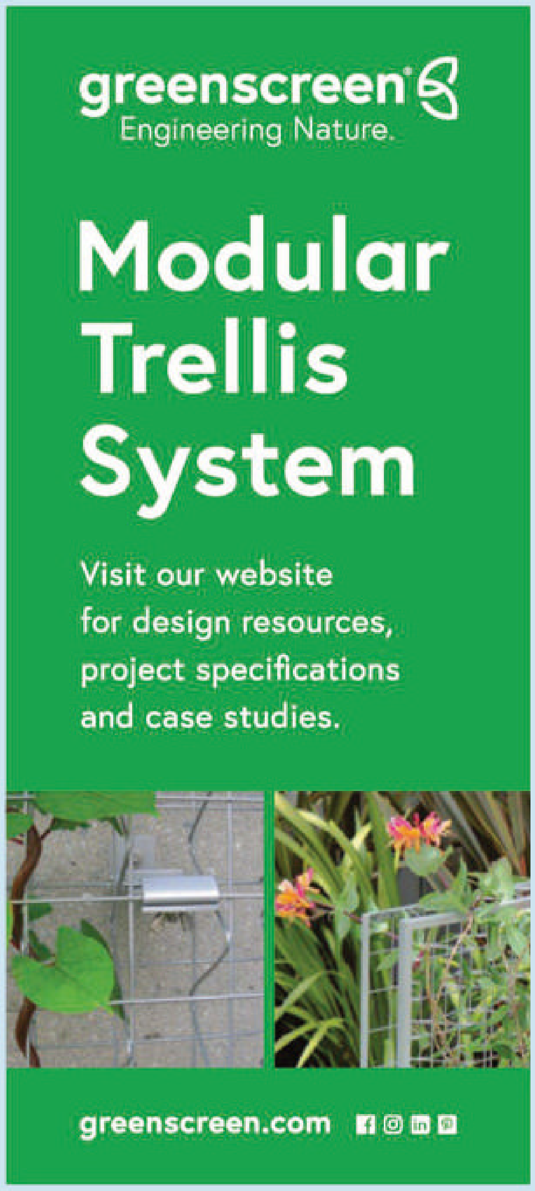
BEAM CLAY® INFIELD MIXES
Available Nationwide from the: Northeast, Midwest, South & West
800-247-BEAM (2326)
sales@beamclay.com | www.BeamClay.com


SALSBURY INDUSTRIES
People Committed to Quality Since 1936®
Buy Mailboxes Factory Direct! 1-800-624-5269
mailboxes.com
1-800-MAILBOX

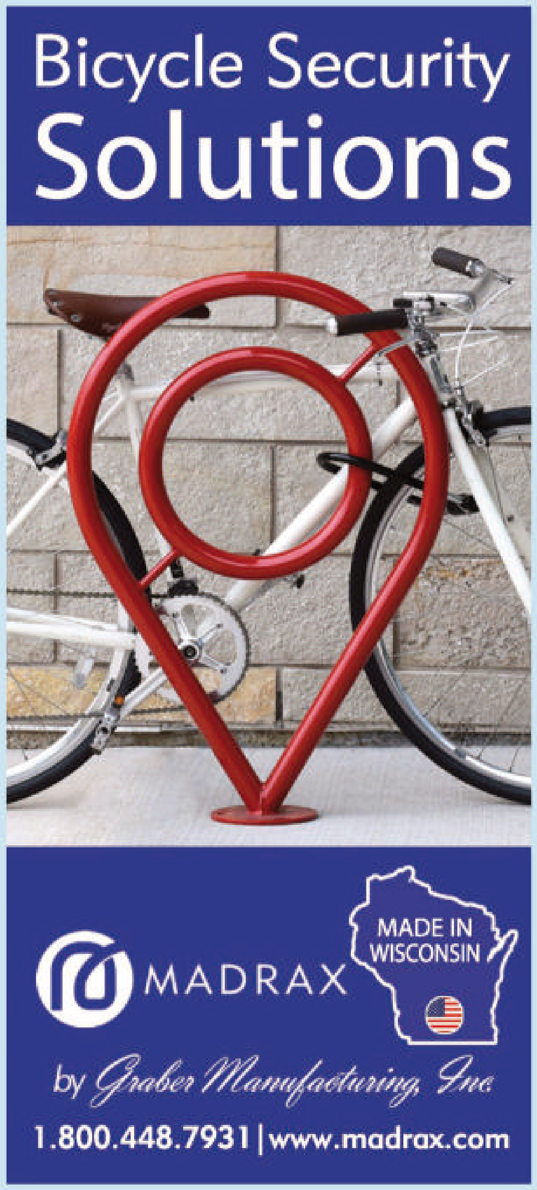

THE ORIGINAL
solid, pinned retaining wall systems
VERSA-LOK®
Retaining Wall Systems
Solid Solutions.™
Call (800) 770-4525 or visit versa-lok.com.
© 2023 Kiltie Corporation • Oakdale, MN


ELEVATE YOUR LANDSCAPE
with Natural Stone Hardscapes by Kafka Granite
- Sawn Cut Drywall
- Thermal-Top Steps
- Thermal Flagstone
- Sawn Edging
- Treads
- Caps & Coping

Kafka Granite
kafkagranite.com
800-852-7415


greenscreen®
Engineering Nature.
Modular Trellis System
Visit our website for design resources, project specifications and case studies.
greenscreen.com

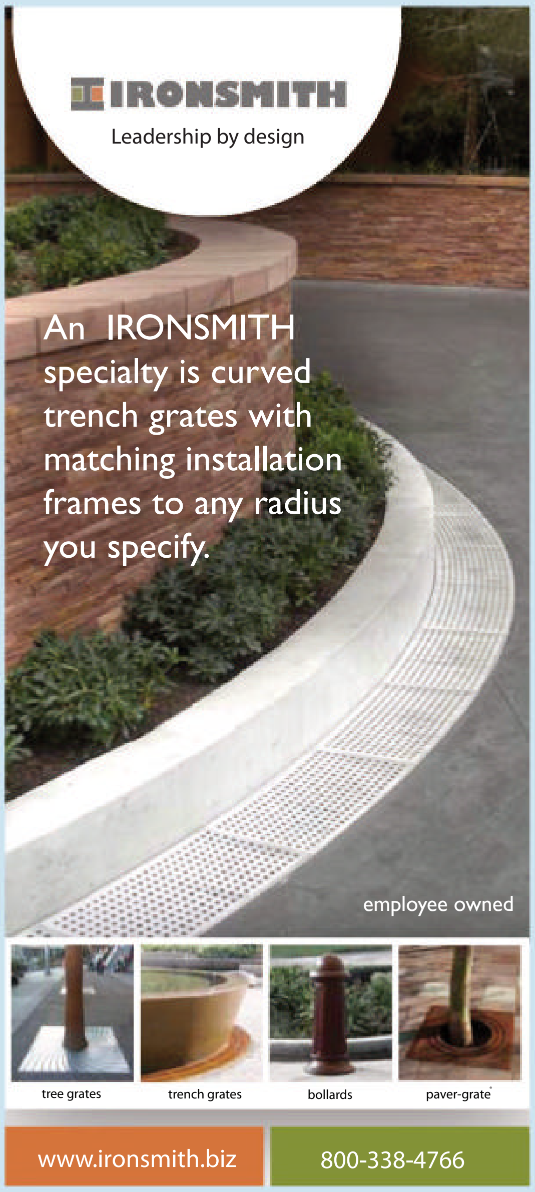
Granite Pavers
SOLI
architectural surfaces
a division of Solistone inc.
soliusa.com | 800 246 2156


Bicycle Security Solutions
MADRAX
MADE IN WISCONSIN
by Graber Manufacturing, Inc.
1.800.448.7931 | www.madrax.com

LEGACY
STAMPED PAVERS
Perfect for historic districts, streetscapes & universities
(336) 721-7514
PINE HALL BRICK
AUTHENTIC CLAY PAVERS
World's largest supplier of clay pavers.

Seating with Style™

emu®
www.emuamericas.com
800.726.0368


IRONSMITH
Leadership by design

An IRONSMITH specialty is curved trench grates with matching installation frames to any radius you specify.

employee owned

tree grates
trench grates
bollards
paver-grate

www.ironsmith.biz
800-338-4766

KINGSLEY BATE™
ELEGANT OUTDOOR FURNITURE

© Kingsley Bate. Find dealers online.
T: 703-361-7000 F: 703-361-7001
www.kingsleybate.com [KB1293B]

Gravel-Lok
POROUS STONE PAVING

Use Natural Pebbles to Create Durable, Permeable Pavements

TREE PITS STONESCAPING PERMEABLE PAVING ROOFTOP PLAZAS

celltekdirect.com | 888.851.0051
MADE IN USA

Need a Date?®

Quality Palms
Since 2002

Phoenix dactylifera
DATE PALMS
NATIONWIDE SHIPPING
888.326.PALM
SouthCoastWholesale.com
SOUTH COAST WHOLESALE
WHOLESALE DATE PALMS & TREES
SILVERLAKES

SHELTER™
outdoor
shelteroutdoor.com
855.768.4450

Columbia Cascade

TimberCraft®
Full-Round
Log Seats

www.TimberForm®.com

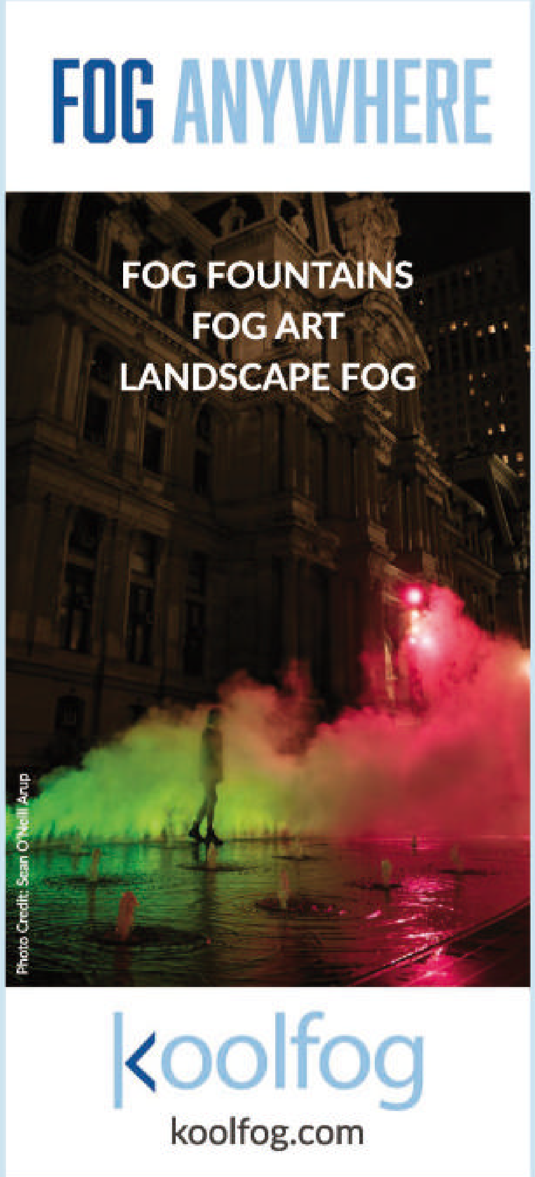
Tournesol
tournesol.com | 800.542.2282

DuMor®

520 COLLECTION

Unforgettable, the 520 collection is a bringing together of simple clean design and modularity. Utilize standard benches or mix, match, and connect sections to fit your space. Collection includes standard benches, curved connected benches, connected straight benches, angle connector benches, curved and straight wall mount benches, seat islands, and tables.

DUMOR.COM • 800-598-4018


FOG ANYWHERE

FOG FOUNTAINS
FOG ART
LANDSCAPE FOG

Photo Credit: Sean O'Neill Arup

koolfog
koolfog.com

LEGI

Welded steel wire fences, gates, trellisses and structures.

Cedarwood Playground;
Waltham MA
Carolyn Cooney & Associates

www.legifences-US.com
858.729.3888

ASLA FUND
FOUNDERS CLUB

April is World Landscape Architecture Month

Show your support for landscape architects

Join the ASLA Founders Club!

The ASLA Fund and the Founders Club members are continuing the commitment through the recurring giving program that allows the ASLA Fund to continue our mission of **investing in global, social, and environmental change through the art and science of landscape architecture.**

Your ongoing contribution to the Founders Club supports the **ASLA Climate Action Plan, MineCraft and Dream Big with Design, Women of Color Licensure Advancement Program, sending students to the conference, and more!**

ALSA Fund | Bringing awareness to the profession.

Join the Founders Club with any of the following gifts and receive special member benefits:

$18.99 monthly **$189.99 quarterly** **$1899 annually**

For more information or to donate, visit aslafund.org.

The ASLA Fund is the 501(c)(3) charitable foundation of the American Society of Landscape Architects, supported by the tax-deductible ASLA members contributions and other individuals and organizations, and committed to the careful stewardship and artful design of our cultural and natural environment.

Defining the profession of sustainable landscape development.

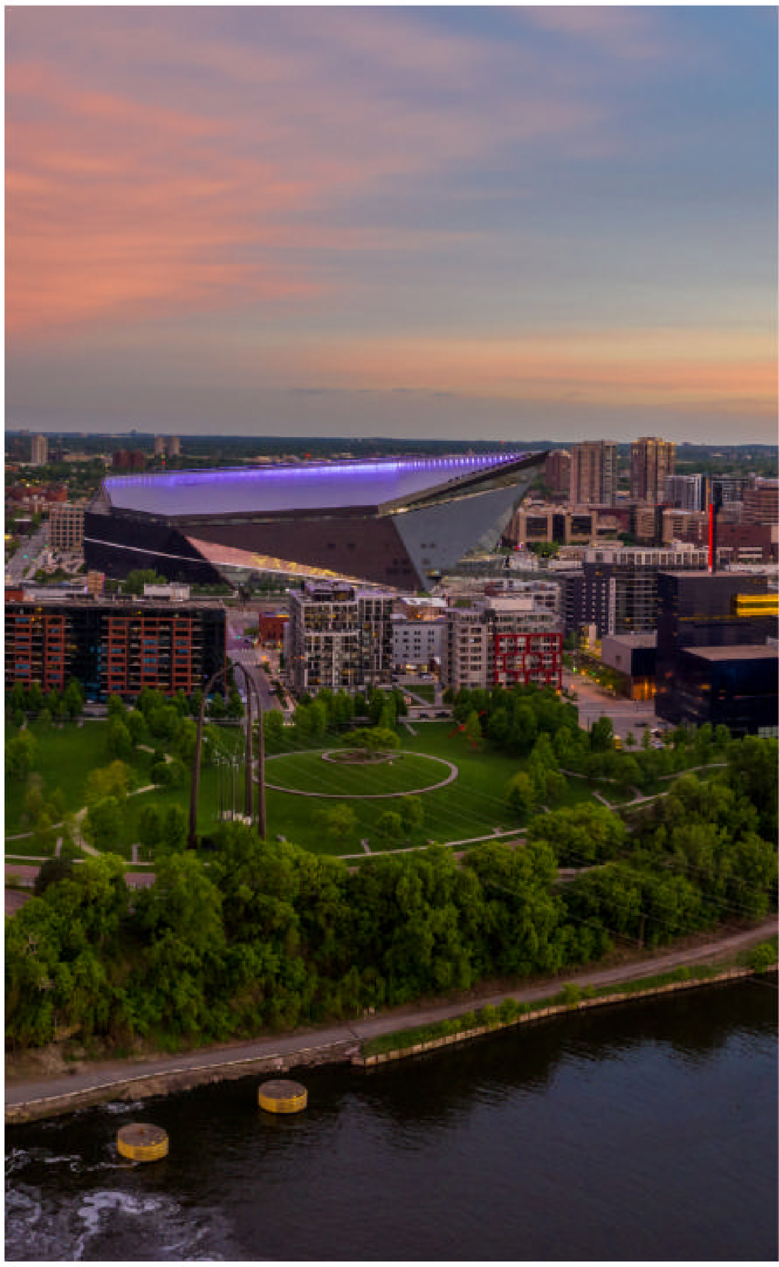
Used by landscape architects and others to align land development and management with innovative sustainable design. Demonstrate your expertise and become a SITES Accredited Professional.

Learn more at **sustainablesites.org**

SITES-certified Chicago Navy Pier, Chicago Illinois

THE Sustainable SITES Initiative®

TWIN CITIES, TWICE AS NICE



Landscape architects and industry partners from the Upper Midwest know their climate and their customers. But their perspective is global – as is their work.

BY RUSS KLETTKE

Executive Summary

- **Minneapolis will host the 2023 Conference and EXPO.**
- **Attendees from all over the country will attend; the Upper Midwest will be in the spotlight.**
- **Designers and suppliers can discuss projects that thrive in four seasons.**

The fact that both Minneapolis and St. Paul have their famous skyway systems – enabling pedestrians to walk between downtown buildings, elevated and insulated from slushy streets – might seem at odds with the ideals of landscape architecture.

Here's another way to look at it: this place respects the pedestrian. And it's not just the downtown, given it's a city of lakes and green spaces. Ninety-eight percent of residents are within a 10-minute walk of a public park (*source*: Trust for Public Land's 2022 ParkScore Index).

Another misperception is it's an Arctic outpost. Minnesotans remind us they have a spring, summer, and fall. Just as importantly, they consider winter a time to be outdoors in very active ways. "We enjoy our winters," says **Megan Andrada**, marketing manager for **Landscape Structures**, the Twin Cities-based provider of playground equipment. In addition to popular lake ice fishing, outdoor venues – an ice maze, rooftop restaurants, a sauna village with "thermaculture traditions," and moonlight snowshoe tours at the Minneapolis Sculpture Garden – keep this place active. It's probably why Minnesotans are among the longest-lived people in America.

Of course, the 2023 Annual Conference on Landscape Architecture and EXPO (October 27-30) will be about more than the Upper Midwest. But for exhibitors, landscape architects, and students planning to attend, a little primer on what to expect is in order.

Expect to discuss manufacturing, resiliency, and economics

Several landscape architects based in the Midwest shared their experiences working there as well as on projects far outside the region.

Satoko Muratake, PLA, ASLA, a Director of Process at **TEN x TEN** (Minneapolis), says their firm has a range of work, from municipal and institutional to community organizations and commercial clients – including campus designs integrating cultural and historic preservation, habitat conservation, and community engagement – with park master plans, street design, commemorative plazas and memorials, sustainable green frameworks, and site designs for commercial developments. About 40 percent of their work is outside of Minnesota. Current economic forecasts "look good so far," she says. "We expect more public projects this year, including civic spaces, streets, parks, libraries, and art institutions." In addition, the Federal Infrastructure Investment and Jobs Act passed in 2021 might expand public project opportunities addressing climate change and community equity issues.

"When I go to the ASLA EXPO at annual meetings, I like to learn about product customization, study products that meet LEED criteria, examine interesting pavers, discuss the durability and finishes on materials and the sources," she says.

Minneapolis' GDP per capita and per-capita income are 120% and 130%, respectively, above the national average. Nearby Madison, Fargo, Kansas City, and Des Moines are as well. (*source*: Manhattan Institute)

Photo by Gian Lorenzo Ferretti Photography

Adam De Foor-White, PLA, ASLA, a senior associate at **Omni Ecosystems** (Chicago), says the Midwestern climate surprisingly supports their growing stream of work in rooftop and other workplace projects. "The outlook is good for outdoor amenity spaces to attract and retain young workers," he says. "Developers are building them like crazy." The firm has projects from California to Massachusetts with a concentration in the Midwest.

De Foor-White has attended every ASLA annual conference since 2007, and regularly visits exhibitors who are active in the ASLA Illinois chapter. "I spend most of my time on the EXPO floor. I look for what's new, and what can withstand tough, urban environments. Being able to interact with the products – benches, playgrounds, pergolas, gravel – is very important to me."

Working from the Omaha office of **RDG Planning & Design, Kene Okigbo, ASLA**, says their multidisciplinary firm works throughout the lower 48 states. Projects in 2023 are making for a strong year, particularly as their urban design, parks, educational, and sports and wellness clients have the firm hiring new designers. Much of their work is in urban centers, "but what excites me about the conference being in Minnesota is the prospective showcase of rural work outside the urban core," he says, referencing projects designed with and in Native American communities.

"The big opportunity for suppliers is to focus on materiality," Okigbo adds, referring to exhibitors at the ASLA Conferences. "I ask for more information on production processes, how much maintenance will be required, and what happens if a product fails. Being here in Omaha, we have to know about things like salt tolerance, where wood is sourced from, and what shipping looks like."

Look for ideas from vendors who call Minnesota home

Andrada lives in the Twin Cities and sees first-hand how the city puts playgrounds to work. "There is a lot going on with inclusive play, for people of all abilities, and 'destination playgrounds,'" she says, referring to an increased emphasis on creating play places that draw communities together, some designed with themes. One such playground along the Mississippi River in Minneapolis celebrates the state's history of logging, for example.

Another landscape architecture industry partner with offices in the Twin Cities, St. Paul-based **Bailey Nurseries**, works nationally but is well familiar with market needs and demands nearby. "The landscape sector should remain strong even if consumer spending softens later in the year," says **Alec Charais**, chief marketing and product development officer for the grower supplier, breeder, and brand owner.

He says trees are still in tighter supply than shrubs, coming off exceptional pandemic-era demand. "New product innovations are a huge part of horticulture," he adds. "Our Little Hottie and Pop Star hydrangea were bred for stronger heat tolerance, more flowers, and compactness – meaning less maintenance in a time of tight labor supply." Even in Minnesota, they understand a warming environment.

Be nice

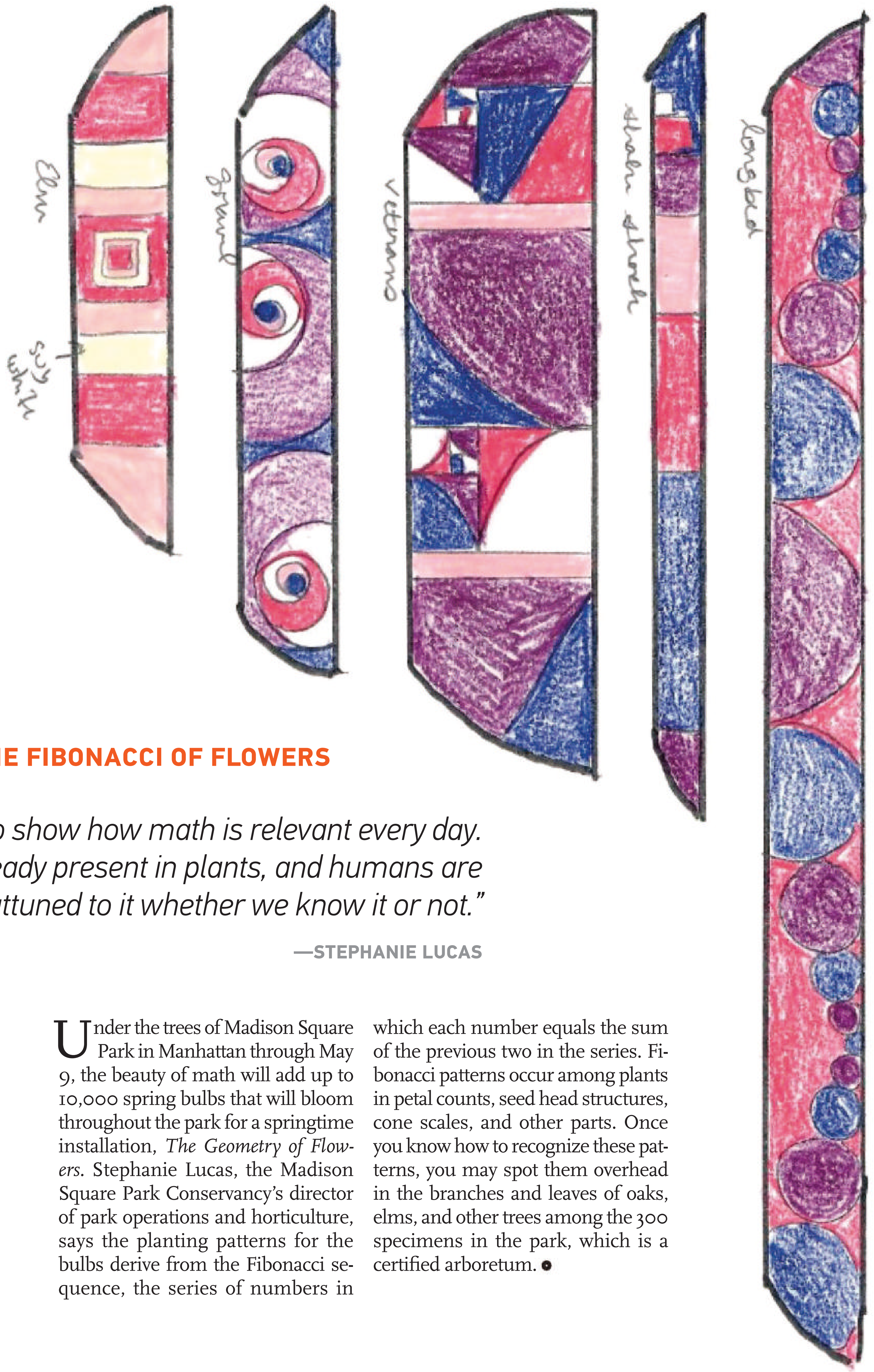
So what should visitors to the Conference and EXPO expect from a concentration of Midwestern landscape architects? "'Minnesota Nice' is definitely a thing," says Charais. "We're a hardy bunch, we take ourselves a bit seriously at times, and we appreciate great relationships, innovative products, and folks who do what they say they'll do. But I think that is true anywhere." ■

ASLA
2023
Conference on Landscape Architecture
OCTOBER 27-30 | Minneapolis, MN #ASLA2023

American Society of
Landscape Architects

No endoresement of products or suppliers mentioned is intended or implied.

BACKSTORY



COURTESY STEPHANIE LUCAS, MADISON SQUARE PARK CONSERVANCY

THE FIBONACCI OF FLOWERS

> *"We want to show how math is relevant every day. It's already present in plants, and humans are attuned to it whether we know it or not."*
>
> **—STEPHANIE LUCAS**

Under the trees of Madison Square Park in Manhattan through May 9, the beauty of math will add up to 10,000 spring bulbs that will bloom throughout the park for a springtime installation, *The Geometry of Flowers*. Stephanie Lucas, the Madison Square Park Conservancy's director of park operations and horticulture, says the planting patterns for the bulbs derive from the Fibonacci sequence, the series of numbers in which each number equals the sum of the previous two in the series. Fibonacci patterns occur among plants in petal counts, seed head structures, cone scales, and other parts. Once you know how to recognize these patterns, you may spot them overhead in the branches and leaves of oaks, elms, and other trees among the 300 specimens in the park, which is a certified arboretum. ●

For Denver, smart waste receptacles mean smart savings.

VICTOR STANLEY RELAY™

STREET LEVEL SENSING™ & WASTE CONTROL SERVICE

Bins equipped with Relay sensors provide the city of Denver with accurate, real-time data on fill level, area environmental conditions, pedestrian traffic and much more. This means more efficient collection, saving the city time and money on fewer unnecessary stops, and providing valuable insights for future planning.

What can we do for your city?

VICTOR STANLEY®

victorstanleyrelay.com

TimberForm® Colossus™

Giant free-of-heart-center (F.O.H.C) solid Douglas fir timber seating

Shown with powder-coated steel armrests and skateboard deterrents.

Columbia Cascade

www.TimberForm®.com

1-800/547-1940 | asla@timberform.com